

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



■ Features

- 1. RoHS & Halogen-Free (HF) compliant
- 2. EIA size: 0402, 0603, 0805, 1206, 1210, 1812, 2018
- 3. Hold current ratings from 0.01~5.0A
- 4. Voltage ratings from 6V computer and electronic applications to 60V
- 5. Small footprint
- 6. Fast time to trip
- 7. Operating & storage temperature range: -40~+85°C
- 8. Agency approval: UL / cUL / TUV



■ Recommended Applications

- 1. USB, HDMI, IEEE 1394 interface
- 2. PC, Motherboard, NB, Tablet
- 3. Mobile phone
- 4. Digital cameras
- 5. Telecommunication
- 6. Consumer device

■ Part Number Code

K		M		C		3		S		0		5		0		R		Y			
1	2	3	4	5	6	7	8	9	10	11	12	13									
Product Code K THINKING Polymer PTC Resettable Fuse		Type MC SMD Type		Dimension 0S 0402 1S 0603 2S 0805 3S 1206 4S 1210 5S 1812 6S 2018		I hold 001 0.01A 010 0.1A 035 0.35A 050 0.5A 500 5.0A		Packing R Tape & Reel		Optional Suffix Y RoHS & HF Compliant											

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■ Structure & Dimensions

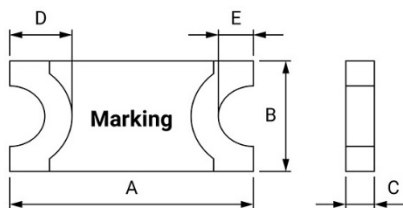


Figure 1

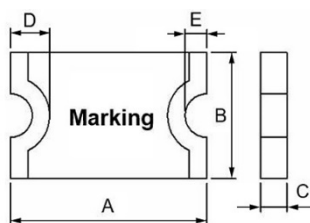


Figure 2

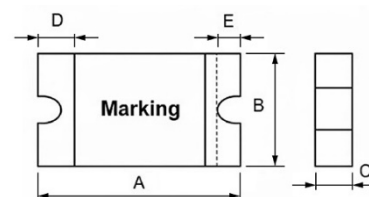


Figure 3

(Unit: mm)

Part No.	A		B		C		D		E		Figure
	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max)	
KMC0S009	0.85	1.15	0.35	0.65	0.20	0.60	0.10	0.45	--	0.40	3
KMC0S010					0.20	0.60					3
KMC0S020					0.20	0.60					3
KMC0S035					0.20	0.60					3
KMC0S050					0.20	0.60					3
KMC0S075					0.20	0.60					3
KMC0S100					0.20	0.60					3
KMC1S001	1.40	1.80	0.60	1.00	0.30	1.10	0.15	0.50	--	0.40	3
KMC1S002					0.30	1.10					3
KMC1S003					0.30	1.10					3
KMC1S004					0.30	1.10					3
KMC1S005					0.30	1.10					3
KMC1S010					0.30	0.55					1
KMC1S020					0.30	0.55					1
KMC1S025					0.30	0.55					1
KMC1S035					0.50	0.70					1

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■ Structure & Dimensions

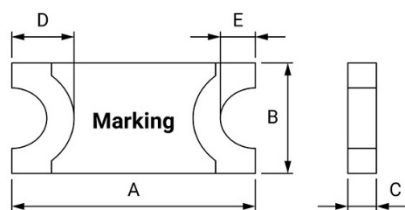


Figure 1

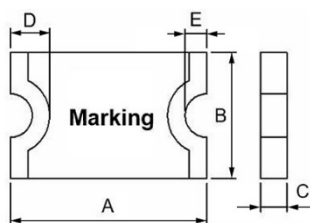


Figure 2

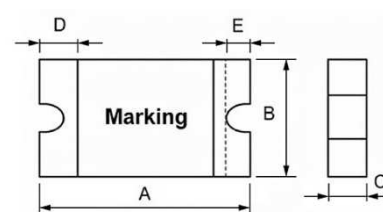


Figure 3

(Unit: mm)

Part No.	A		B		C		D		E		Figure
	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	
KMC2S002	2.00	2.20	1.20	1.50	0.40	0.85	0.15	0.55	0.05	0.45	3
KMC2S005					0.40	0.85					3
KMC2S006					0.55	0.85					3
KMC2S008					0.55	0.85					3
KMC2S010					0.40	0.85					1
KMC2S010-30					0.40	0.85					3
KMC2S010-24					0.40	0.85					1
KMC2S012					0.40	0.85					1
KMC2S020					0.40	0.85					3
KMC2S020-12					0.40	0.85					3
KMC2S020-24					0.40	0.85					3
KMC2S035					0.30	0.75					1
KMC2S050					0.30	0.85					1
KMC2S050-9					0.50	1.10					3
KMC2S050-12					0.50	1.10					3
KMC2S075					0.50	0.85					1
KMC2S110					0.50	0.90					3

■ Structure & Dimensions

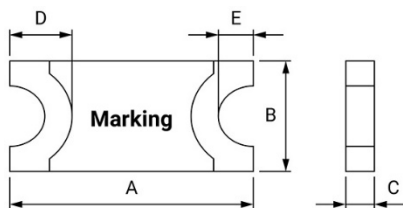


Figure 1

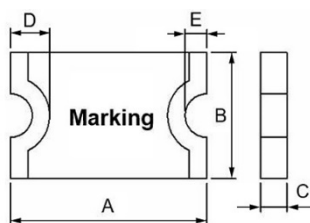


Figure 2

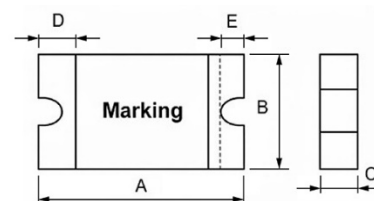


Figure 3

(Unit: mm)

Part No.	A		B		C		D		E		Figure
	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	
KMC3S005	3.00	3.50	1.50	1.80	0.50	0.90	0.13	0.75	0.08	0.45	2
KMC3S005-30					0.50	0.90					3
KMC3S010					0.50	0.90					2
KMC3S010-30					0.50	0.90					3
KMC3S012					0.35	0.75					2
KMC3S016					0.28	0.68					2
KMC3S016-48					0.28	0.85					3
KMC3S020					0.28	0.68					2
KMC3S020-33					0.35	0.85					3
KMC3S025					0.28	0.68					2
KMC3S025-24					0.35	0.85					3
KMC3S035					0.28	0.68					2
KMC3S035-24					0.35	0.85					3
KMC3S035-30					0.28	1.30					3
KMC3S050					0.28	0.68					2
KMC3S050-15					0.28	1.06					2
KMC3S050-16					0.50	1.20					3
KMC3S050-18					0.50	1.20					3
KMC3S050-24					0.75	1.30					3
KMC3S075					0.28	0.75					2
KMC3S075-16					0.45	1.30					3
KMC3S100					0.40	0.88					2
KMC3S100-8					0.40	0.88					3
KMC3S110					0.40	0.88					2
KMC3S110-16					0.80	1.40					3
KMC3S150					0.55	1.35					2
KMC3S200					0.80	1.35					2
KMC3S200-8					0.80	1.35					3
KMC3S200-12					0.80	1.35					3

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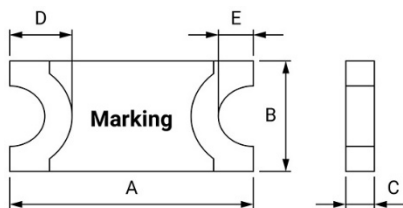


Figure 1

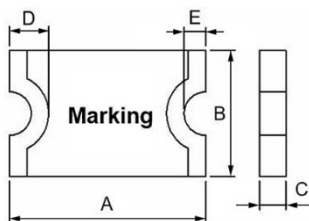


Figure 2

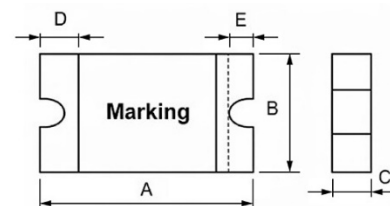


Figure 3

(Unit: mm)

Part No.	A		B		C		D		E		Figure
	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	
KMC4S005	3.00	3.43	2.35	2.80	0.55	1.15	0.13	0.75	0.08	0.50	3
KMC4S005-60					0.80	1.35					3
KMC4S010					0.55	1.15					3
KMC4S010-60					0.55	1.25					3
KMC4S020					0.28	0.68					3
KMC4S035					0.28	0.68					3
KMC4S035-16					0.28	0.80					3
KMC4S035-30					0.75	1.25					3
KMC4S050					0.28	0.68					3
KMC4S050-30					0.28	1.25					3
KMC4S075					0.28	0.68					3
KMC4S075-24					0.28	1.80					3
KMC4S110					0.28	0.68					3
KMC4S110-12					0.28	1.25					3
KMC4S110-16					0.28	1.25					3
KMC4S150					0.45	1.00					3
KMC4S150-12					0.45	1.25					3
KMC4S150-16					0.45	1.25					3
KMC4S175					0.55	1.20					3
KMC4S175-12					0.55	1.20					3

■ Structure & Dimensions

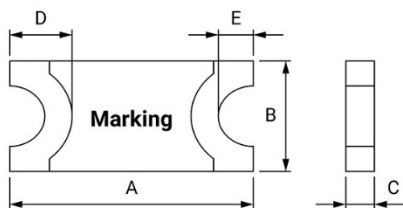


Figure 1

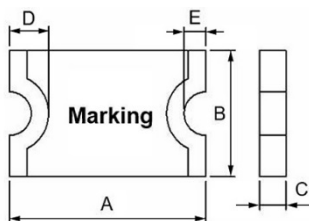


Figure 2

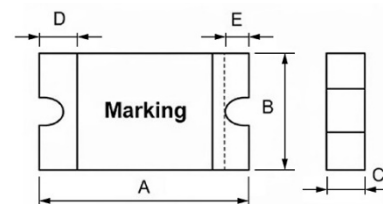


Figure 3

(Unit: mm)

Part No.	A		B		C		D		E		Figure
	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	
KMC5S010	4.37	4.73	3.07	3.41	0.50	0.90	0.20	1.20	0.15	0.65	3
KMC5S010-60					0.50	0.90					3
KMC5S014					0.50	0.90					3
KMC5S020					0.50	0.90					3
KMC5S020-60					0.50	0.90					3
KMC5S035					0.28	0.68					3
KMC5S035-30					0.30	0.80					3
KMC5S035-33					0.30	0.80					3
KMC5S035-60					1.20	2.00					3
KMC5S050					0.28	0.68					3
KMC5S050-24					0.30	0.80					3
KMC5S050-30					0.30	0.80					3
KMC5S050-33					0.30	0.80					3
KMC5S050-60					1.20	2.00					3
KMC5S075					0.28	0.68					3
KMC5S075-24					0.60	1.20					3
KMC5S075-33					0.60	1.20					3
KMC5S110					0.28	0.68					3
KMC5S110-16					0.60	1.00					3
KMC5S110-24					0.60	1.00					3
KMC5S110-33					0.80	1.60					3
KMC5S125					0.28	0.68					3
KMC5S125-8					0.28	0.80					3
KMC5S125-16					0.30	1.25					3
KMC5S125-24					0.40	1.00					3
KMC5S150					0.28	0.68					3
KMC5S150-12					0.60	1.00					3
KMC5S150-24					0.70	1.50					3

■ Structure & Dimensions

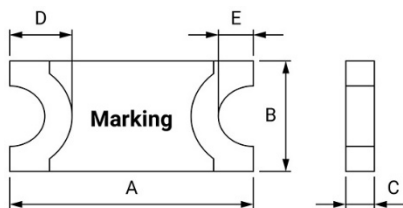


Figure 1

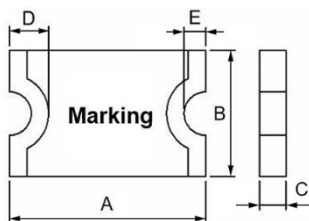


Figure 2

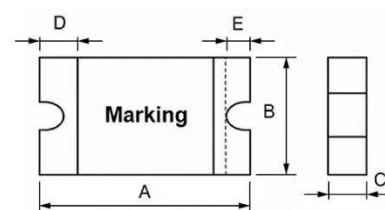


Figure 3

(Unit: mm)

Part No.	A		B		C		D		E		Figure
	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	
KMC5S160	4.37	4.73	3.07	3.41	0.28	0.68	0.20	1.20	0.15	0.65	3
KMC5S160-12					0.28	1.35					3
KMC5S160-16					0.28	1.70					3
KMC5S200					0.35	0.85					3
KMC5S200-12					0.35	1.20					3
KMC5S200-16					0.80	1.60					3
KMC5S260					0.35	0.90					3
KMC5S260-12					0.35	1.52					3
KMC5S260-16					0.35	2.00					3
KMC5S300					0.60	1.20					3

(Unit: mm)

Part No.	A		B		C		D		E		Figure
	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	(Min.)	(Max.)	
KMC6S030	4.72	5.44	3.70	4.43	0.75	1.25	0.30	1.50	0.25	0.65	3
KMC6S050					1.20	2.00					3
KMC6S075					1.20	2.00					3
KMC6S100					0.50	0.85					3
KMC6S100-33					0.75	1.25					3
KMC6S150					0.75	1.55					3
KMC6S150-33					0.80	1.60					3
KMC6S200					0.50	0.75					3
KMC6S260-24					0.70	1.50					3
KMC6S300					0.80	1.60					3
KMC6S500					0.80	1.60					3

■ Electrical Characteristics at 23 °C

Part No.	Marking	V _{max.}	I _{max.}	I _{hold}	I _{trip}	P _d (Max.)	Maximum Time to Trip		Resistance		Safety Approvals	
		(V _{dc})	(A)	(A)	(A)	(W)	Current	Time	Initial R _i	Post Trip R ₁	UL/cUL	TUV
							(A)	(Sec.)	Min. (Ω)	Max. (Ω)		
KMC0S009	-	20	100	0.09	0.30	0.50	0.50	1.00	1.00	6.00	✓	✓
KMC0S010	-	6	100	0.10	0.30	0.50	0.50	1.00	0.15	2.00	✓	✓
KMC0S020	-	6	100	0.20	0.50	0.50	1.00	1.00	0.10	1.25	✓	✓
KMC0S035	-	6	100	0.35	0.70	0.50	8.00	0.10	0.05	0.70	✓	✓
KMC0S050	-	6	100	0.50	1.00	0.50	8.00	0.10	0.04	0.40	✓	✓
KMC0S075	-	6	40	0.75	1.50	0.50	8.00	0.10	0.03	0.30	✓	✓
KMC0S100	-	6	40	1.00	2.00	0.50	8.00	0.20	0.03	0.25	✓	✓
KMC1S001	A	60	40	0.01	0.03	0.50	0.20	1.00	15.00	100.00	✓	✓
KMC1S002	B	60	40	0.02	0.06	0.50	0.20	1.00	12.00	70.00	✓	✓
KMC1S003	C	30	40	0.03	0.09	0.50	0.20	1.00	6.00	50.00	✓	✓
KMC1S004	P	24	40	0.04	0.12	0.50	0.20	1.00	4.00	40.00	✓	✓
KMC1S005	Z	15	40	0.05	0.15	0.50	0.50	0.10	3.80	30.00	✓	✓
KMC1S010	1	15	40	0.10	0.30	0.50	0.50	1.00	0.90	6.00	✓	✓
KMC1S020	2	9	40	0.20	0.50	0.50	1.00	0.60	0.55	3.50	✓	✓
KMC1S025	5	9	40	0.25	0.55	0.50	8.00	0.08	0.50	3.00	✓	✓
KMC1S035	7	6	40	0.35	0.75	0.50	8.00	0.10	0.20	1.00	✓	✓

Note: UL&cUL File No. E138827 / TUV File No. R50606427 & R50279312

PPTC- Polymer PTC Resettable Fuse: KMC Series



SMD Type

■ Electrical Characteristics at 23°C

Part No.	Marking	Vmax.	I _{max} .	I _{hold}	I _{trip}	Pd (Max.)	Maximum Time to Trip		Resistance		Safety Approvals	
		(V _{dc})	(A)	(A)	(A)	(W)	Current (A)	Time (Sec.)	Initial Ri	Post Trip R1	UL/cUL	TUV
									Min. (Ω)	Max. (Ω)		
KMC2S002	A2	60	40	0.02	0.06	0.50	0.10	1.50	8.00	85.00	√	-
KMC2S005	A5	60	40	0.05	0.15	0.50	0.50	1.50	1.50	50.00	√	-
KMC2S006	A6	6	40	0.06	0.25	0.50	0.30	1.00	0.50	12.00	√	-
KMC2S008	A8	6	40	0.08	0.30	0.50	0.30	5.00	0.50	8.00	√	-
KMC2S010	D	15	100	0.10	0.30	0.50	0.50	1.50	1.00	6.00	√	√
KMC2S010-24	D	24	100	0.10	0.30	0.50	0.50	1.50	1.00	6.00	√	√
KMC2S010-30	D1	30	100	0.10	0.30	0.80	0.50	1.50	1.00	6.00	√	√
KMC2S012	A9	30	100	0.12	0.30	1.00	0.50	1.50	1.00	6.00	√	-
KMC2S020	L	9	100	0.20	0.50	0.50	8.00	0.02	0.65	3.50	√	√
KMC2S020-12	L1	12	100	0.20	0.50	0.50	8.00	0.20	0.65	3.50	√	√
KMC2S020-24	L2	24	100	0.20	0.50	0.60	8.00	0.20	0.65	3.50	√	√
KMC2S035	T	6	100	0.35	0.75	0.50	8.00	0.10	0.25	1.20	√	√
KMC2S050	O	6	100	0.50	1.00	0.50	8.00	0.10	0.15	0.85	√	√
KMC2S050-9	O1	9	100	0.50	1.00	0.50	8.00	0.10	0.15	0.85	√	√
KMC2S050-12	O2	12	100	0.50	1.00	0.60	8.00	0.10	0.10	0.85	√	√
KMC2S075	X	6	100	0.75	1.50	0.50	8.00	0.20	0.09	0.35	√	√
KMC2S110	V	6	40	1.10	2.00	0.60	8.00	0.30	0.06	0.21	√	√

Note: UL&cUL File No. E138827 / TUV File No. R50606427 & R50279312

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SMD Type

■ Electrical Characteristics at 23°C

Part No.	Marking	Vmax.	I _{max} .	I _{hold}	I _{trip}	P _d (Max.)	Maximum Time to Trip		Resistance		Safety Approvals	
		(V _{dc})	(A)	(A)	(A)	(W)	Current	Time	Initial R _i	Post Trip R ₁	UL/cUL	TUV
							(A)	(Sec.)	Min. (Ω)	Max. (Ω)		
KMC3S005	TH	60	100	0.05	0.15	0.40	0.25	1.50	3.600	50.00	✓	✓
KMC3S005-30	TH1	30	100	0.05	0.15	0.40	0.25	1.50	3.600	50.00	✓	✓
KMC3S010	TY	60	100	0.10	0.25	0.40	0.50	1.00	1.600	15.00	✓	✓
KMC3S010-30	TY1	30	100	0.10	0.25	0.40	0.50	1.00	1.600	15.00	✓	✓
KMC3S012	TJ	30	100	0.13	0.29	0.50	1.00	0.20	1.400	6.00	✓	✓
KMC3S016	TK	30	100	0.16	0.37	0.50	1.00	0.30	1.100	4.50	✓	✓
KMC3S016-48	TK1	48	100	0.16	0.37	0.60	1.00	0.30	1.100	4.50	✓	✓
KMC3S020	TL	24	100	0.20	0.42	0.60	8.00	0.10	0.650	2.60	✓	✓
KMC3S020-33	TL1	33	100	0.20	0.42	0.60	8.00	0.10	0.650	2.60	✓	✓
KMC3S025	TN	16	100	0.25	0.50	0.60	8.00	0.08	0.550	2.30	✓	✓
KMC3S025-24	TN1	24	100	0.25	0.50	0.60	8.00	0.08	0.550	2.30	✓	✓
KMC3S035	TP	16	100	0.35	0.75	0.60	8.00	0.10	0.300	1.20	✓	✓
KMC3S035-24	TP1	24	100	0.35	0.75	0.60	8.00	0.10	0.300	1.20	✓	✓
KMC3S035-30	TP2	30	100	0.35	0.75	0.60	8.00	0.10	0.300	1.20	✓	✓
KMC3S050	TQ	8	100	0.50	1.00	0.60	8.00	0.10	0.150	0.70	✓	✓
KMC3S050-15	TQ1	15	100	0.50	1.00	0.90	8.00	0.10	0.150	0.70	✓	✓
KMC3S050-16	TQ3	16	100	0.50	1.00	0.90	8.00	0.10	0.150	0.70	✓	✓
KMC3S050-18	TQ5	18	100	0.50	1.00	0.90	8.00	0.10	0.150	0.70	✓	✓
KMC3S050-24	TQ2	24	100	0.50	1.00	0.90	8.00	0.10	0.15	0.70	✓	✓
KMC3S075	TR	8	100	0.75	1.50	0.60	8.00	0.10	0.100	0.29	✓	✓
KMC3S075-16	TR1	16	100	0.75	1.50	0.60	8.00	0.10	0.090	0.35	✓	✓
KMC3S100	TS	6	100	1.00	1.80	0.80	8.00	0.30	0.065	0.21	✓	✓
KMC3S100-8	TS2	8	100	1.00	1.80	0.80	8.00	0.30	0.065	0.21	✓	✓
KMC3S110	TU	8	100	1.10	2.20	0.80	8.00	0.10	0.070	0.20	✓	✓
KMC3S110-16	TU1	16	100	1.10	2.20	0.80	8.00	0.10	0.060	0.21	✓	✓
KMC3S150	TV	8	100	1.50	3.00	0.80	8.00	0.30	0.040	0.12	✓	✓
KMC3S200	TX	6	100	2.00	3.50	1.00	8.00	1.50	0.020	0.08	✓	✓
KMC3S200-8	TX2	8	100	2.00	3.50	1.00	8.00	1.50	0.020	0.08	✓	✓
KMC3S200-12	TX3	12	100	2.00	3.50	2.00	8.00	1.50	0.020	0.08	✓	✓

Note: UL&cUL File No. E138827 / TUV File No. R50143386 & R50606427

PPTC- Polymer PTC Resettable Fuse: KMC Series



SMD Type

■ Electrical Characteristics at 23°C

Part No.	Marking	V _{max.}	I _{max.}	I _{hold}	I _{trip}	P _d (Max.)	Maximum Time to Trip		Resistance		Safety Approvals	
		(V _{dc})	(A)	(A)	(A)	(W)	Current (A)	Time (Sec.)	Initial R _i	Post Trip R ₁	UL/cUL	TUV
									Min. (Ω)	Max. (Ω)		
KMC4S005	Ta	30	10	0.05	0.15	0.60	0.25	1.50	3.60	50.00	✓	✓
KMC4S005-60	Ta1	60	10	0.05	0.15	0.60	0.25	1.50	3.60	50.00	✓	✓
KMC4S010	Tb	30	10	0.10	0.30	0.60	0.50	1.50	1.60	15.00	✓	✓
KMC4S010-60	Tb1	60	10	0.10	0.30	0.60	0.50	1.50	1.60	15.00	✓	✓
KMC4S020	Td	30	10	0.20	0.40	0.60	8.00	0.02	0.80	5.00	✓	✓
KMC4S035	Tf	6	100	0.35	0.70	0.60	8.00	0.20	0.32	1.30	✓	✓
KMC4S035-16	Tf1	16	100	0.35	0.70	0.60	8.00	0.20	0.32	1.30	✓	✓
KMC4S035-30	Tf2	30	100	0.35	0.70	0.60	8.00	0.20	0.32	1.30	✓	✓
KMC4S050	Tg	16	100	0.50	1.00	0.60	8.00	0.10	0.25	0.90	✓	✓
KMC4S050-30	Tg1	30	100	0.50	1.00	0.60	8.00	0.10	0.25	0.90	✓	✓
KMC4S075	Th	8	100	0.75	1.50	0.60	8.00	0.10	0.11	0.40	✓	✓
KMC4S075-24	Th1	24	100	0.75	1.50	0.60	8.00	0.10	0.11	0.40	✓	✓
KMC4S110	Tm	6	100	1.10	2.20	0.60	8.00	0.30	0.06	0.21	✓	✓
KMC4S110-12	Tm1	12	100	1.10	2.20	0.60	8.00	0.30	0.06	0.21	✓	✓
KMC4S110-16	Tm2	16	100	1.10	2.20	0.60	8.00	0.30	0.06	0.21	✓	✓
KMC4S150	Tn	6	100	1.50	3.00	0.80	8.00	0.50	0.04	0.11	✓	✓
KMC4S150-12	Tn1	12	100	1.50	3.00	0.80	8.00	0.50	0.04	0.11	✓	✓
KMC4S150-16	Tn2	16	100	1.50	3.00	0.80	8.00	0.50	0.04	0.11	✓	✓
KMC4S175	Tr	6	40	1.75	3.50	0.80	8.00	0.80	0.02	0.08	✓	✓
KMC4S175-12	Tr1	12	40	1.75	3.50	0.80	8.00	0.80	0.02	0.08	✓	✓

Note: UL&cUL File No. E138827 / TUV File No. R50143386 & R50606427

PPTC- Polymer PTC Resettable Fuse: KMC Series



SMD Type

■ Electrical Characteristics at 23°C

Part No.	Marking	Vmax.	I _{max} .	I _{hold}	I _{trip}	P _d (Max.)	Maximum Time to Trip		Resistance		Safety Approvals	
		(V _{dc})	(A)	(A)	(A)	(W)	Current (A)	Time (Sec.)	Initial R _i	Post Trip R ₁	UL/cUL	TUV
									Min. (Ω)	Max.(Ω)		
KMC5S010	T 010	30	100	0.10	0.30	0.80	0.50	1.50	1.600	15.00	✓	✓
KMC5S010-60	T ⁰¹⁰ ₆₀	60	100	0.10	0.30	0.80	0.50	1.50	0.700	15.00	✓	✓
KMC5S014	T 014	60	10	0.14	0.34	0.80	1.50	0.15	1.500	6.00	✓	✓
KMC5S020	T 020	30	100	0.20	0.40	0.80	8.00	0.02	0.800	5.00	✓	✓
KMC5S020-60	T ⁰²⁰ ₆₀	60	100	0.20	0.40	0.80	8.00	0.20	0.800	5.00	✓	✓
KMC5S035	T 035	16	100	0.35	0.70	0.80	8.00	0.10	0.320	1.50	✓	✓
KMC5S035-30	T ⁰³⁵ ₃₀	30	100	0.35	0.70	0.80	8.00	0.10	0.320	1.50	✓	✓
KMC5S035-33	T ⁰³⁵ ₃₃	33	100	0.35	0.70	0.80	8.00	0.10	0.320	1.50	✓	✓
KMC5S035-60	T ⁰³⁵ ₆₀	60	100	0.35	0.70	1.00	8.00	0.10	0.320	1.50	✓	✓
KMC5S050	T 050	16	100	0.50	1.00	0.80	8.00	0.15	0.150	1.00	✓	✓
KMC5S050-24	T ⁰⁵⁰ ₂₄	24	100	0.50	1.00	0.80	8.00	0.15	0.150	1.00	✓	✓
KMC5S050-30	T ⁰⁵⁰ ₃₀	30	100	0.50	1.00	0.80	8.00	0.15	0.150	1.00	✓	✓
KMC5S050-33	T ⁰⁵⁰ ₃₃	33	100	0.50	1.00	0.80	8.00	0.15	0.150	1.00	✓	✓
KMC5S050-60	T ⁰⁵⁰ ₆₀	60	100	0.50	1.00	1.50	8.00	0.15	0.150	1.00	✓	✓
KMC5S075	T 075	16	100	0.75	1.50	0.80	8.00	0.20	0.110	0.45	✓	✓
KMC5S075-24	T ⁰⁷⁵ ₂₄	24	100	0.75	1.50	1.00	8.00	0.20	0.110	0.40	✓	✓
KMC5S075-33	T ⁰⁷⁵ ₃₃	33	20	0.75	1.50	1.20	8.00	0.20	0.110	0.40	✓	✓
KMC5S110	T 110	8	100	1.10	2.20	0.80	8.00	0.30	0.040	0.21	✓	✓
KMC5S110-16	T ¹¹⁰ ₁₆	16	100	1.10	2.20	1.00	8.00	0.50	0.060	0.18	✓	✓
KMC5S110-24	T ¹¹⁰ ₂₄	24	20	1.10	2.20	1.20	8.00	0.50	0.060	0.20	✓	✓
KMC5S110-33	T ¹¹⁰ ₃₃	33	20	1.10	2.20	1.20	8.00	0.50	0.060	0.20	✓	✓
KMC5S125	T 125	6	100	1.25	2.50	0.80	8.00	0.40	0.050	0.14	✓	✓
KMC5S125-8	T ¹²⁵ ₈	8	100	1.25	2.50	0.80	8.00	0.40	0.050	0.14	✓	✓
KMC5S125-16	T ¹²⁵ ₁₆	16	100	1.25	2.50	1.00	8.00	0.40	0.050	0.14	✓	✓
KMC5S125-24	T ¹²⁵ ₂₄	24	100	1.25	2.50	1.20	8.00	1.50	0.040	0.12	✓	✓
KMC5S150	T 150	8	100	1.50	3.00	0.90	8.00	0.30	0.040	0.11	✓	✓
KMC5S150-12	T ¹⁵⁰ ₁₂	12	100	1.50	3.00	1.00	8.00	0.50	0.040	0.11	✓	✓
KMC5S150-24	T ¹⁵⁰ ₂₄	24	20	1.50	3.00	1.20	8.00	1.50	0.040	0.12	✓	✓

Note: UL&cUL File No. E138827 / TUV File No. R50143386 & R50606427

PPTC- Polymer PTC Resettable Fuse: KMC Series



SMD Type

■ Electrical Characteristics at 23°C

Part No.	Marking	Vmax.	I _{max} .	I _{hold}	I _{trip}	Pd (Max.)	Maximum Time to Trip		Resistance		Safety Approvals	
		(V _{dc})	(A)	(A)	(A)	(W)	Current	Time	Initial Ri	Post Trip R1	UL/cUL	TUV
							(A)	(Sec.)	Min. (Ω)	Max.(Ω)		
KMC5S160	T 160	8	100	1.60	3.20	0.80	8.00	1.00	0.030	0.100	✓	✓
KMC5S160-12	T ¹⁶⁰ ₁₂	12	100	1.60	3.20	1.00	8.00	1.00	0.030	0.100	✓	✓
KMC5S160-16	T ¹⁶⁰ ₁₆	16	100	1.60	3.20	1.00	8.00	1.00	0.030	0.100	✓	✓
KMC5S200	T 200	8	100	2.00	3.50	1.20	8.00	2.00	0.020	0.060	✓	✓
KMC5S200-12	T ²⁰⁰ ₁₂	12	100	2.00	3.50	1.20	8.00	2.00	0.020	0.060	✓	✓
KMC5S200-16	T ²⁰⁰ ₁₆	16	100	2.00	3.50	1.20	8.00	2.00	0.020	0.060	✓	-
KMC5S260	T 260	8	100	2.60	5.00	1.20	8.00	2.50	0.015	0.047	✓	✓
KMC5S260-12	T ²⁶⁰ ₁₂	12	100	2.60	5.00	1.20	8.00	2.50	0.015	0.047	✓	✓
KMC5S260-16	T 260	16	100	2.60	5.00	1.50	8.00	5.00	0.015	0.050	✓	-
KMC5S300	T 300	6	100	3.00	5.00	1.20	8.00	4.00	0.012	0.040	✓	✓

Note: UL&cUL File No. E138827 / TUV File No. R50143386 & R50606427

Part No.	Marking	Vmax.	I _{max} .	I _{hold}	I _{trip}	Pd (Max.)	Maximum Time to Trip		Resistance		Safety Approvals	
		(V _{dc})	(A)	(A)	(A)	(W)	Current	Time	Initial Ri	Post Trip R1	UL/cUL	TUV
							(A)	(Sec.)	Min. (Ω)	Max.(Ω)		
KMC6S030	K030	60	20	0.30	0.60	1.40	1.50	3.00	0.500	2.300	✓	✓
KMC6S050	K050	60	20	0.55	1.10	1.40	2.50	5.00	0.200	1.000	✓	✓
KMC6S075	K075	60	20	0.75	1.50	1.40	8.00	0.50	0.130	0.900	✓	✓
KMC6S100	K100	15	40	1.10	2.20	1.40	8.00	0.50	0.100	0.400	✓	✓
KMC6S100-33	K ¹⁰⁰ ₃₃	33	40	1.10	2.20	1.40	8.00	0.50	0.100	0.400	✓	✓
KMC6S150	K150	15	40	1.50	3.00	1.40	8.00	1.00	0.070	0.180	✓	✓
KMC6S150-33	K ¹⁵⁰ ₃₃	33	40	1.50	3.00	2.00	8.00	1.00	0.070	0.180	✓	✓
KMC6S200	K200	6	40	2.00	4.20	1.40	8.00	3.00	0.048	0.100	✓	✓
KMC6S260-24	K ²⁶⁰ ₂₄	24	40	2.60	5.20	1.60	8.00	5.00	0.004	0.065	✓	✓
KMC6S300	K300	16	40	3.00	5.00	1.60	8.00	10.00	0.015	0.048	✓	✓
KMC6S500	K500	6	100	5.00	10.00	2.00	25.00	2.00	0.005	0.025	✓	✓

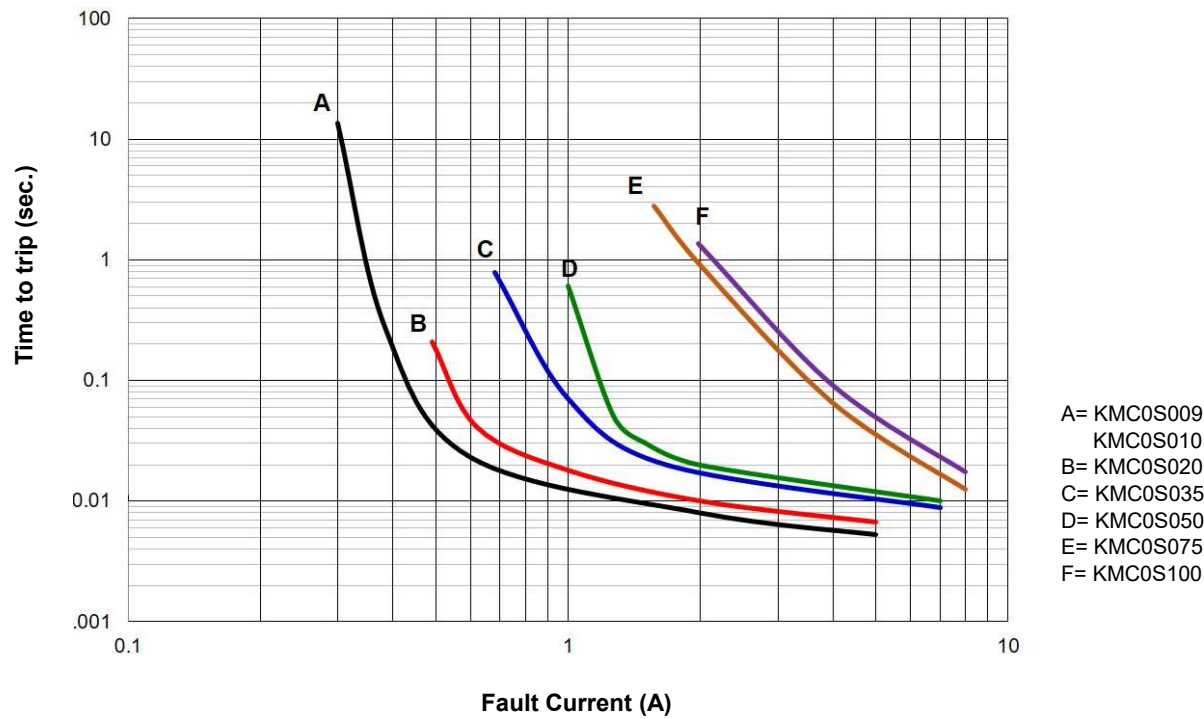
Note: UL&cUL File No. E138827 / TUV File No. R50606427

PPTC- Polymer PTC Resettable Fuse: KMC Series

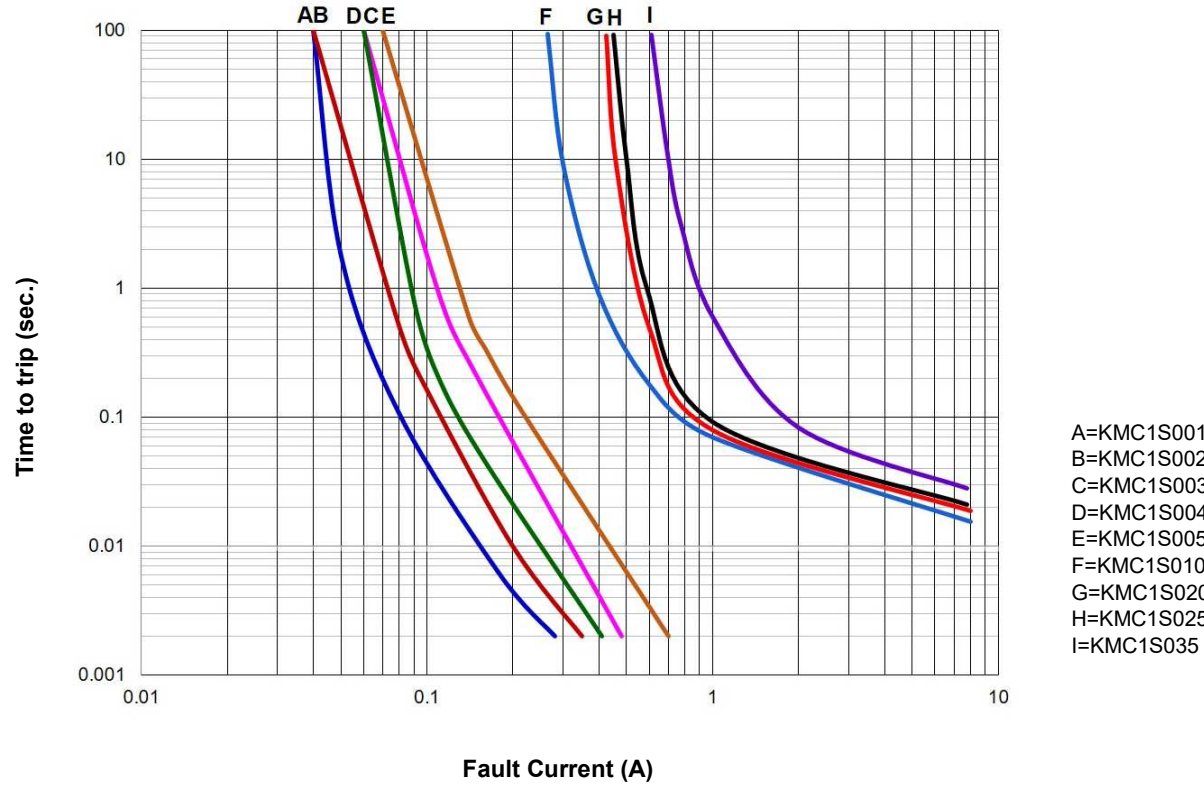
SMD Type



KMC0S - 0402 Series



KMC1S - 0603 Series

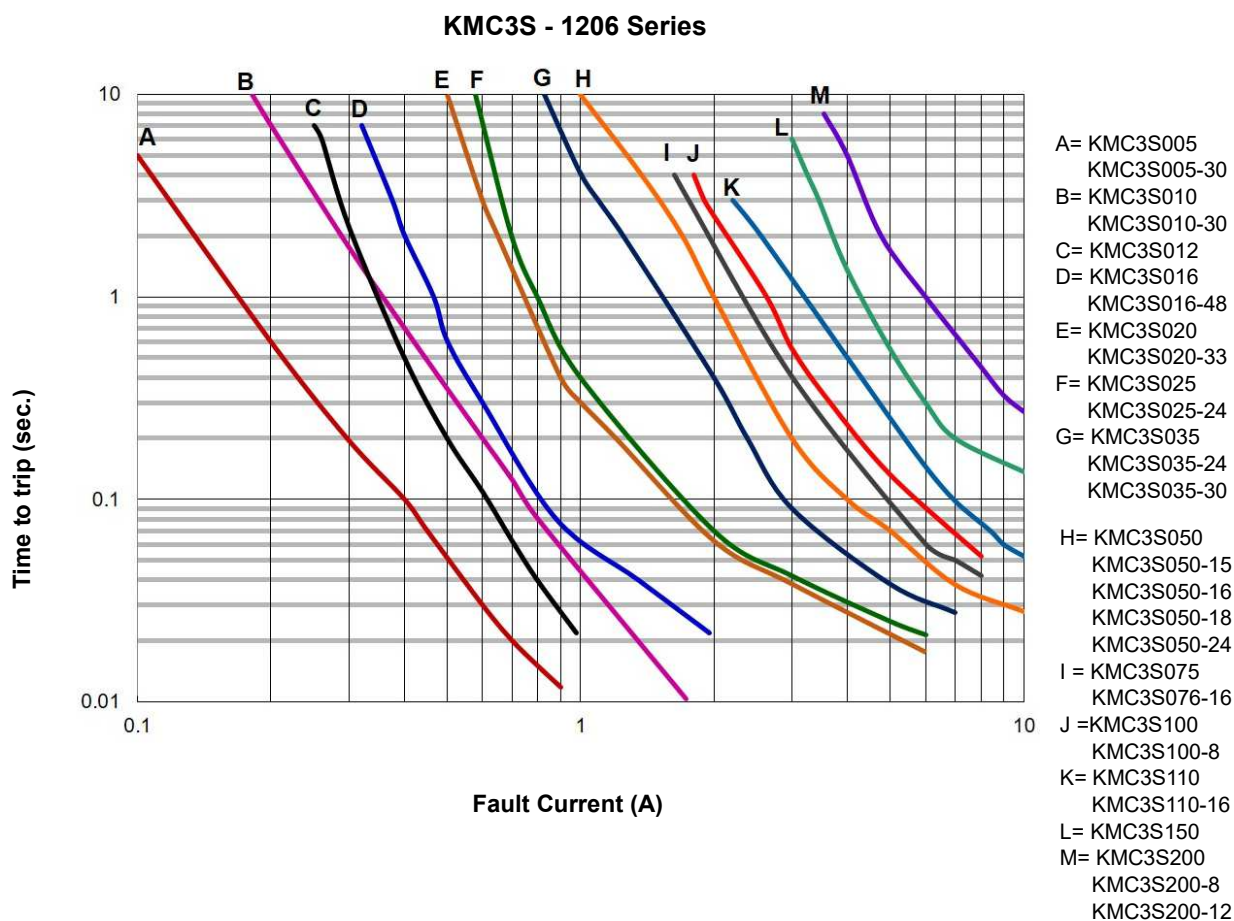
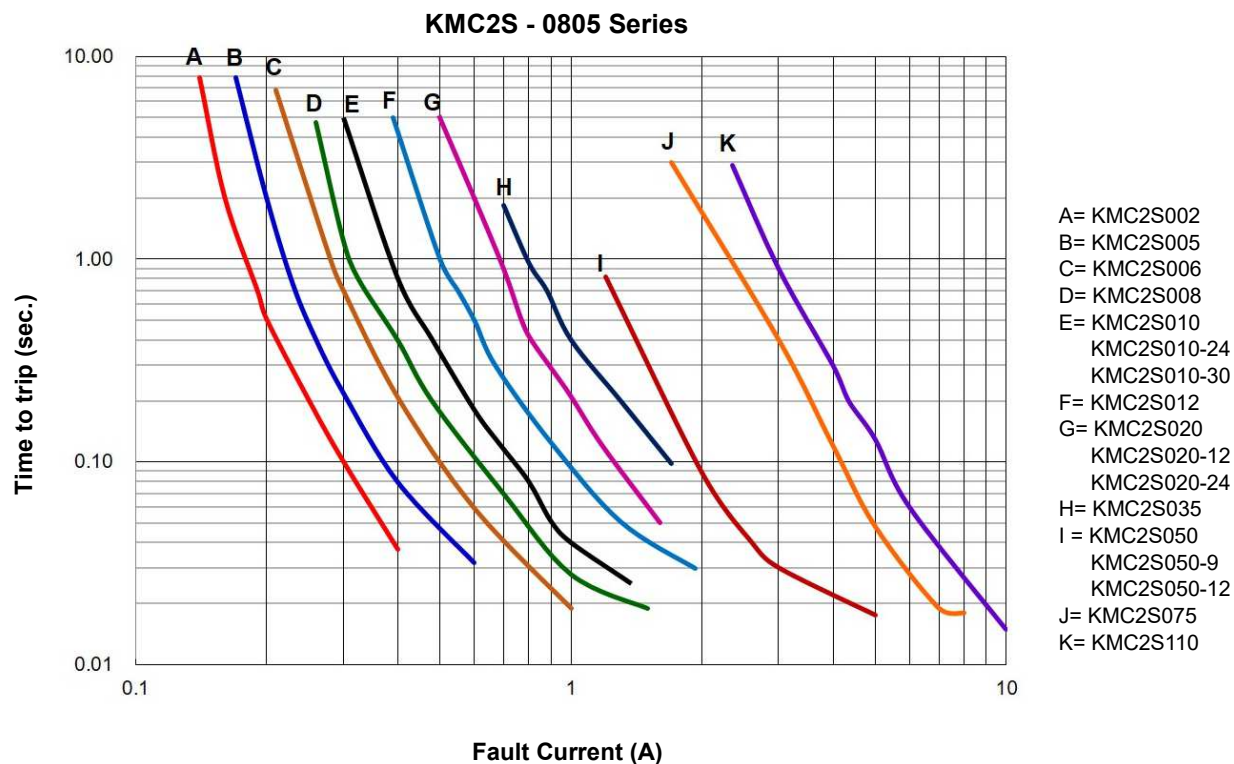


PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



■ Typical Time to Trip Curve at 23°C



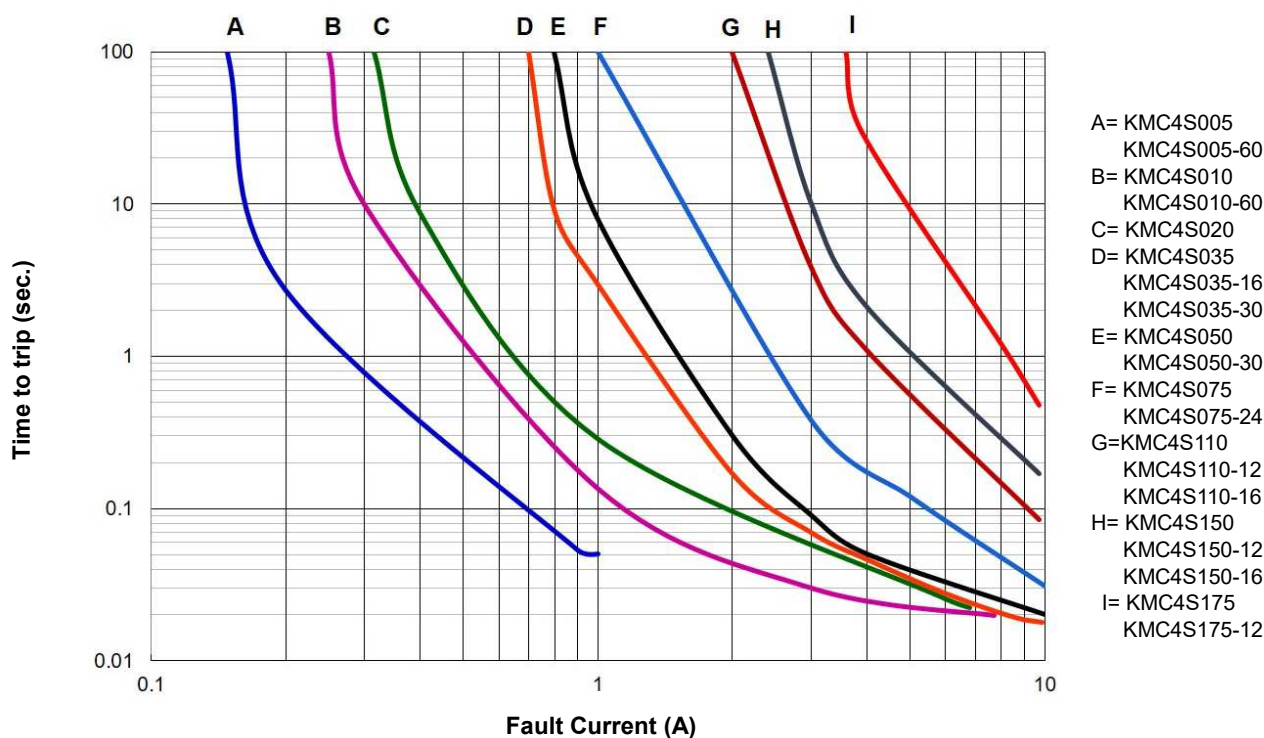
PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type

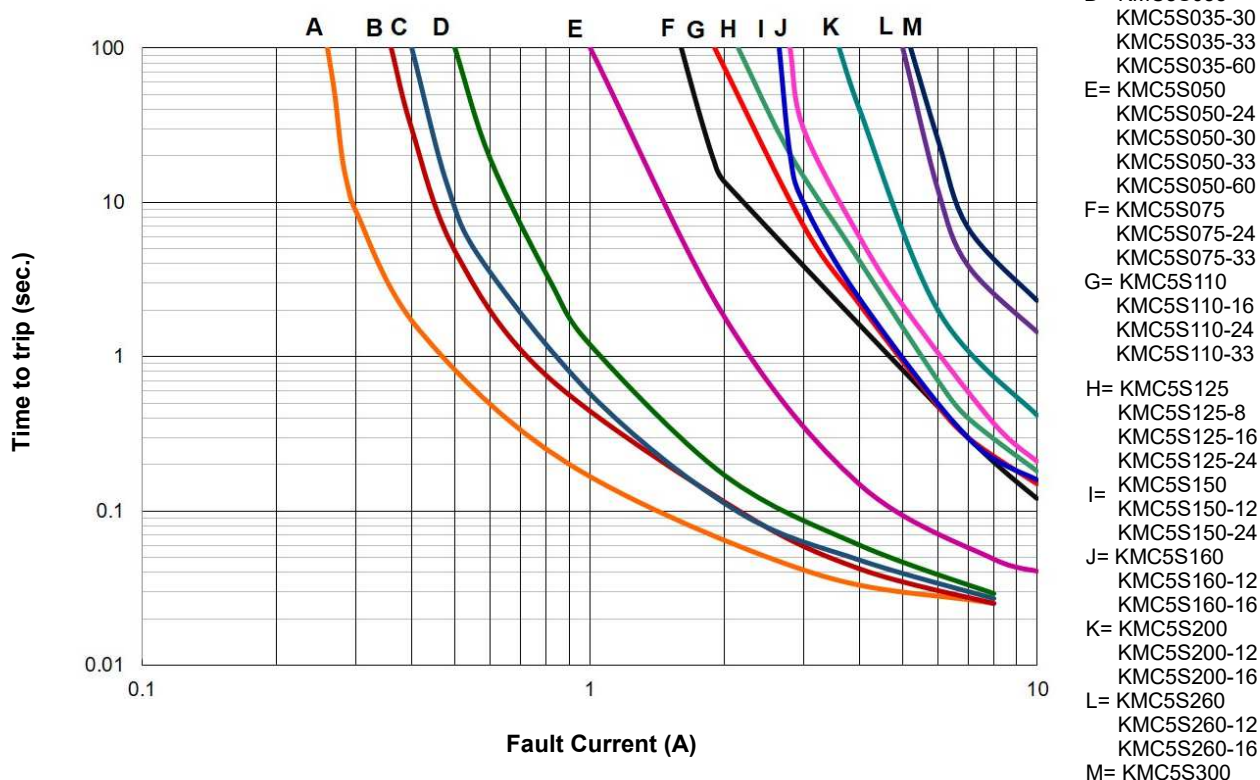


Typical Time to Trip Curve at 23°C

KMC4S - 1210 Series



KMC5S - 1812 Series

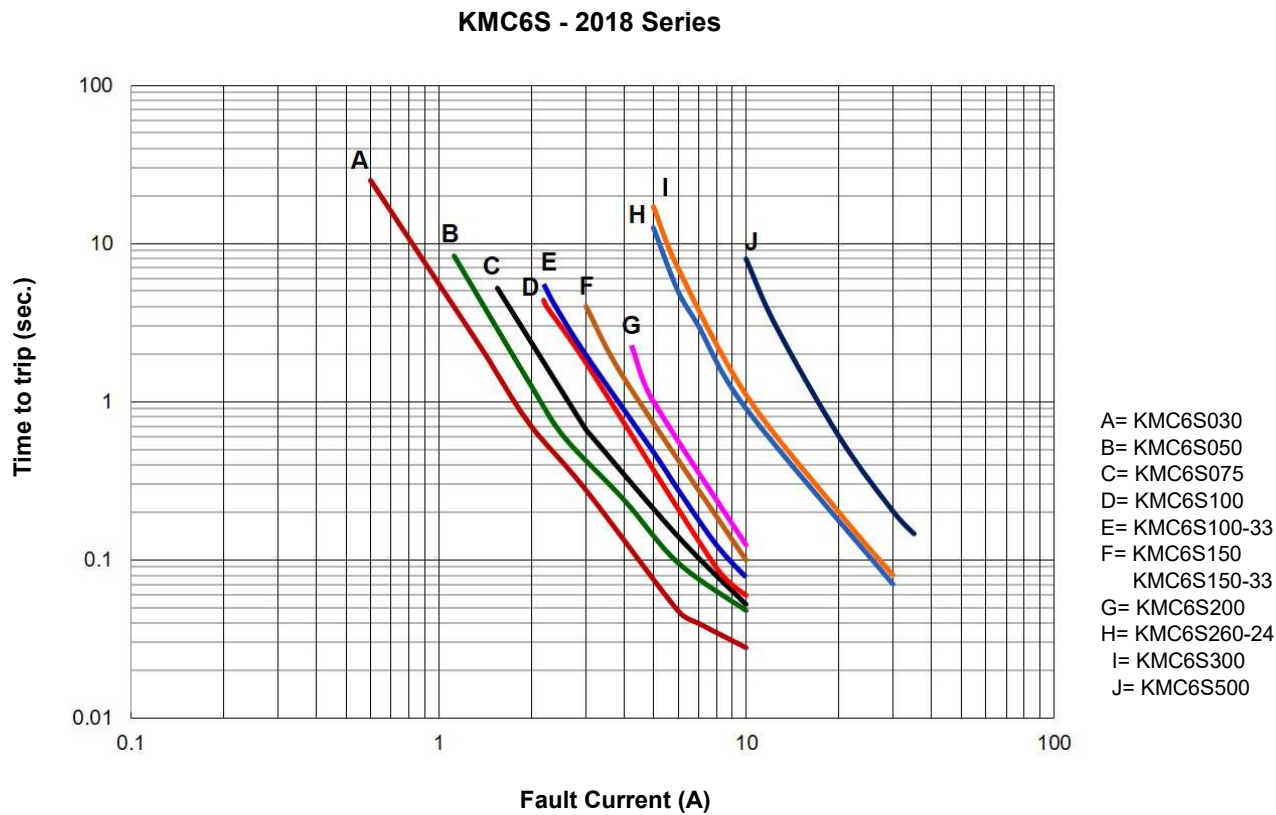


PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



■ Typical Time to Trip Curve at 23°C

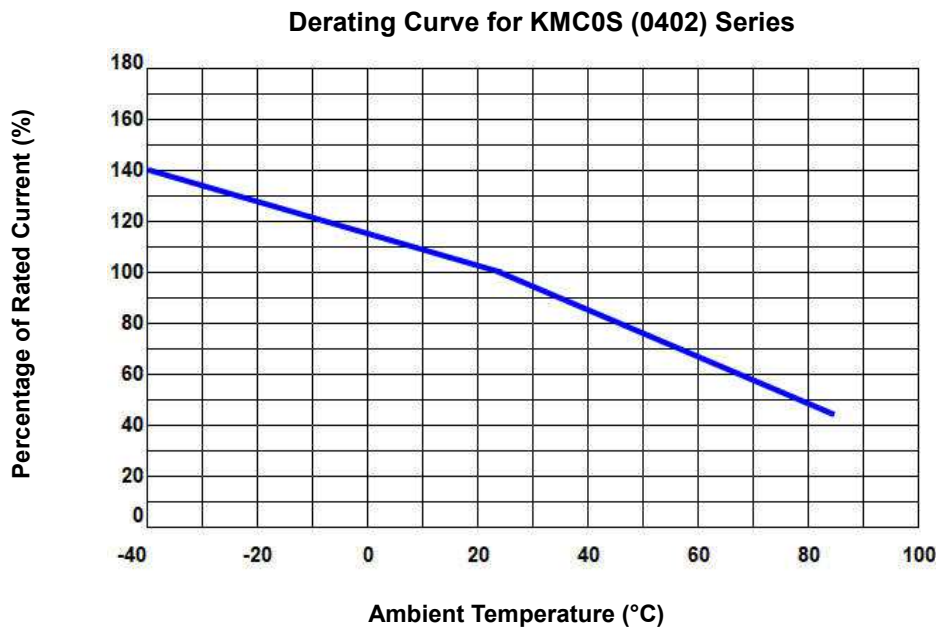


PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



■ KMC0S (0402) Series Ihold & Itrip Thermal Derating Chart



Ihold Thermal Derating Chart for KMC0S (0402) Series

(Unit: A)

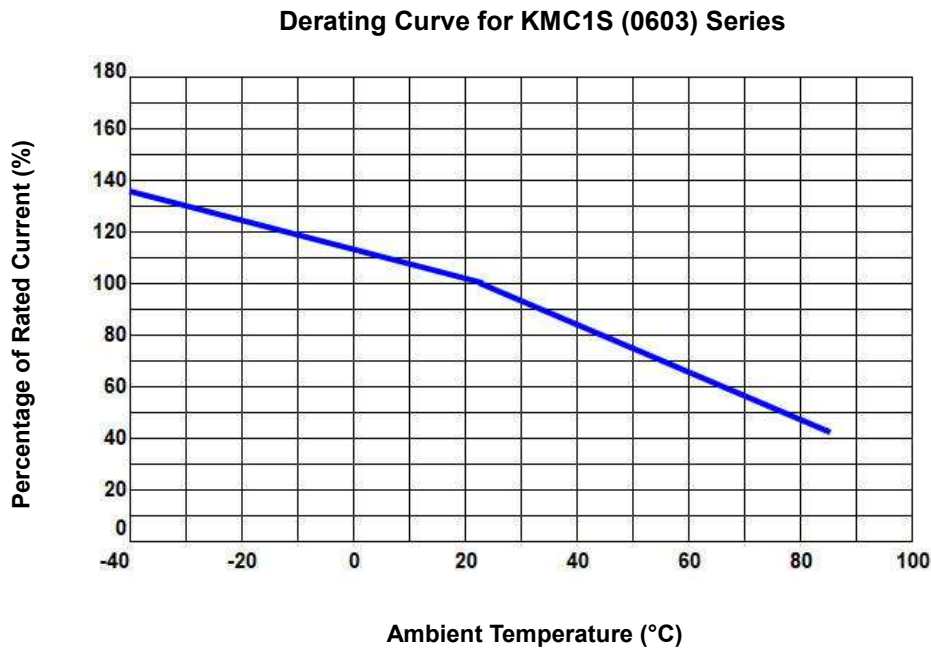
Part No.	Ambient Temperature							
	-40°C	-20°C	0°C	+23°C	+40°C	+60°C	+70°C	+85°C
KMC0S009	0.15	0.12	0.10	0.09	0.08	0.07	0.05	0.04
KMC0S010	0.14	0.13	0.11	0.10	0.09	0.07	0.06	0.05
KMC0S020	0.29	0.26	0.23	0.20	0.18	0.15	0.13	0.09
KMC0S035	0.50	0.45	0.40	0.35	0.31	0.26	0.22	0.16
KMC0S050	0.71	0.64	0.57	0.50	0.44	0.37	0.31	0.23
KMC0S075	1.05	0.95	0.85	0.75	0.65	0.55	0.45	0.30
KMC0S100	1.40	1.25	1.10	1.00	0.85	0.70	0.60	0.40

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



■ KMC1S (0603) Series Ihold & Itrip Thermal Derating Chart



Ihold Thermal Derating Chart for KMC1S (0603) Series

(Unit: A)

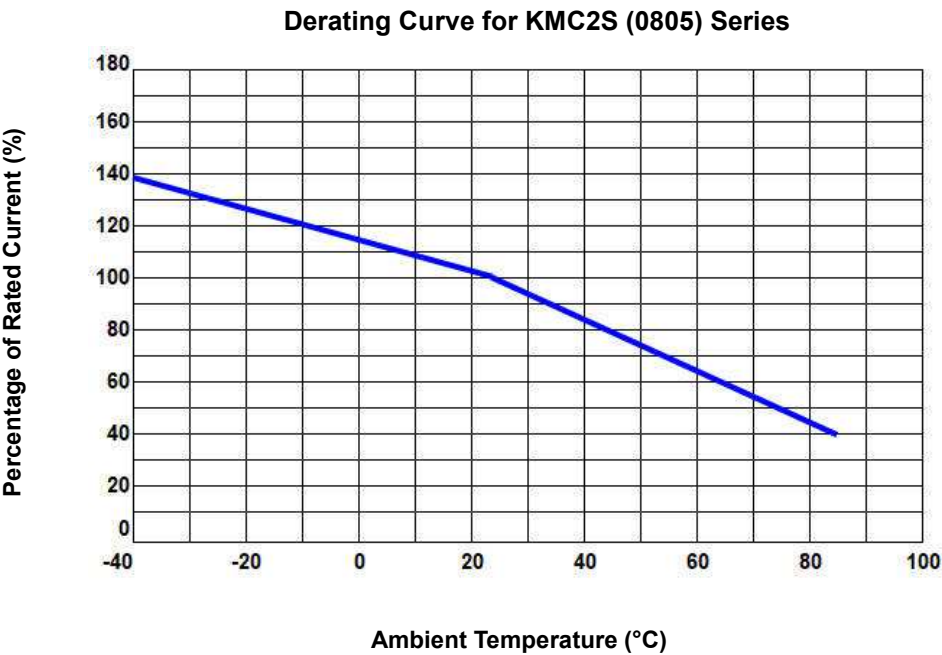
Part No.	Ambient Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
KMC1S001	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
KMC1S002	0.03	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01
KMC1S003	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.01
KMC1S004	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.01
KMC1S005	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.03
KMC1S010	0.13	0.12	0.11	0.10	0.08	0.07	0.06	0.05	0.03
KMC1S020	0.27	0.25	0.23	0.20	0.17	0.14	0.12	0.10	0.07
KMC1S025	0.32	0.29	0.27	0.25	0.21	0.18	0.16	0.14	0.10
KMC1S035	0.47	0.41	0.38	0.35	0.29	0.26	0.24	0.20	0.14

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



■ KMC2S (0805) Series Ihold & Itrip Thermal Derating Chart



Ihold Thermal Derating Chart for KMC2S (0805) Series

(Unit: A)

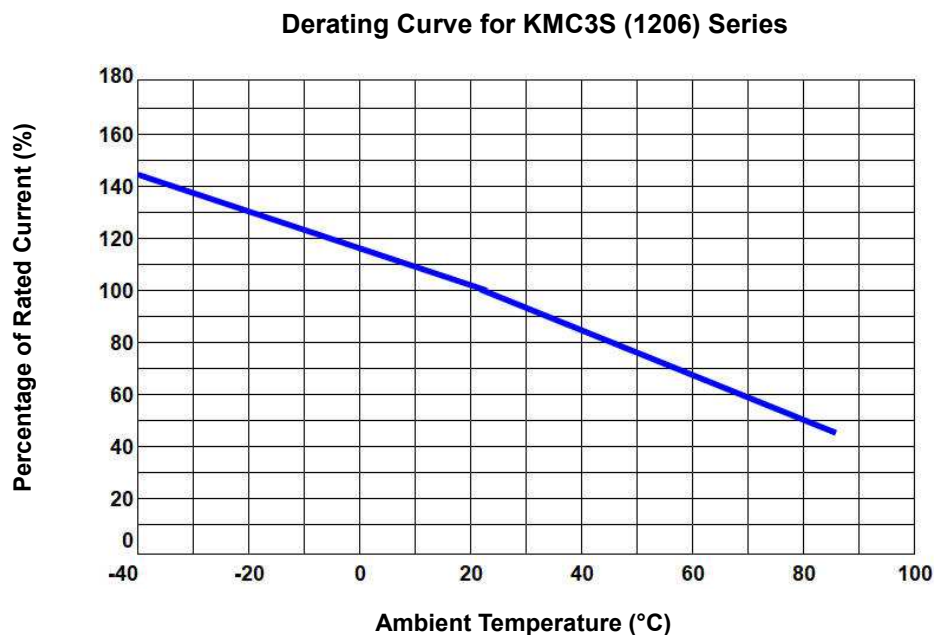
Part No.	Ambient Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
KMC2S002	0.03	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01
KMC2S005	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.02
KMC2S006	0.09	0.08	0.07	0.06	0.05	0.05	0.04	0.03	0.02
KMC2S008	0.12	0.10	0.09	0.08	0.07	0.06	0.05	0.04	0.03
KMC2S010	0.14	0.12	0.11	0.10	0.08	0.07	0.06	0.05	0.03
KMC2S010-24	0.14	0.12	0.11	0.10	0.08	0.07	0.06	0.05	0.03
KMC2S010-30	0.14	0.12	0.11	0.10	0.08	0.07	0.06	0.05	0.03
KMC2S012	0.16	0.15	0.13	0.12	0.10	0.09	0.08	0.07	0.05
KMC2S020	0.28	0.25	0.23	0.20	0.17	0.14	0.12	0.10	0.07
KMC2S020-12	0.28	0.25	0.23	0.20	0.17	0.14	0.12	0.10	0.07
KMC2S020-24	0.28	0.25	0.23	0.20	0.17	0.14	0.12	0.10	0.07
KMC2S035	0.47	0.44	0.39	0.35	0.30	0.27	0.24	0.20	0.14
KMC2S050	0.68	0.62	0.55	0.50	0.40	0.37	0.33	0.29	0.23
KMC2S050-9	0.68	0.62	0.55	0.50	0.40	0.37	0.33	0.29	0.23
KMC2S050-12	0.68	0.62	0.55	0.50	0.40	0.37	0.33	0.29	0.23
KMC2S075	1.00	0.90	0.79	0.75	0.63	0.57	0.53	0.41	0.34
KMC2S110	1.55	1.32	1.26	1.10	0.93	0.85	0.77	0.67	0.55

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



■ KMC3S (1206) Series Ihold & Itrip Thermal Derating Chart



Ihold Thermal Derating Chart for KMC3S (1206) Series

(Unit: A)

Part No.	Ambient Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
KMC3S005-30	0.07	0.06	0.06	0.05	0.04	0.04	0.04	0.03	0.03
KMC3S005	0.07	0.06	0.06	0.05	0.04	0.04	0.04	0.03	0.03
KMC3S010-30	0.15	0.13	0.12	0.10	0.09	0.08	0.07	0.06	0.06
KMC3S010	0.15	0.13	0.12	0.10	0.09	0.08	0.07	0.06	0.06
KMC3S012	0.20	0.17	0.15	0.12	0.11	0.10	0.09	0.08	0.07
KMC3S016	0.21	0.20	0.18	0.16	0.14	0.13	0.12	0.11	0.09
KMC3S016-48	0.21	0.20	0.18	0.16	0.14	0.13	0.12	0.11	0.09
KMC3S020	0.34	0.30	0.26	0.20	0.17	0.15	0.13	0.11	0.08
KMC3S020-33	0.34	0.30	0.26	0.20	0.17	0.15	0.13	0.11	0.08
KMC3S025	0.37	0.33	0.29	0.25	0.22	0.20	0.17	0.15	0.12
KMC3S025-24	0.37	0.33	0.29	0.25	0.22	0.20	0.17	0.15	0.12
KMC3S035	0.50	0.45	0.40	0.35	0.30	0.27	0.24	0.18	0.15
KMC3S035-24	0.50	0.45	0.40	0.35	0.30	0.27	0.24	0.18	0.15
KMC3S035-30	0.50	0.45	0.40	0.35	0.30	0.27	0.24	0.18	0.15
KMC3S050	0.71	0.64	0.57	0.50	0.42	0.39	0.35	0.31	0.25
KMC3S050-15	0.71	0.64	0.57	0.50	0.42	0.39	0.35	0.31	0.25
KMC3S050-16	0.71	0.64	0.57	0.50	0.42	0.39	0.35	0.31	0.25
KMC3S050-18	0.71	0.64	0.57	0.50	0.42	0.39	0.35	0.31	0.25
KMC3S050-24	0.71	0.64	0.57	0.50	0.42	0.39	0.35	0.31	0.25

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



■ KMC3S (1206) Series Ihold & Itrip Thermal Derating Chart

Ihold Thermal Derating Chart for KMC3S (1206) Series

(Unit: A)

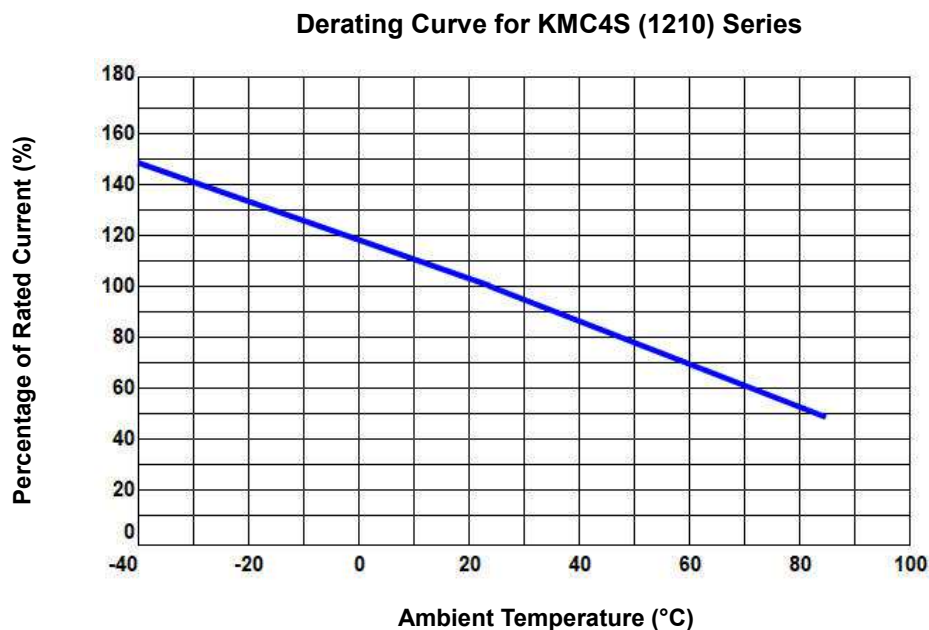
Part No.	Ambient Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
KMC3S075	1.14	1.01	0.88	0.75	0.65	0.59	0.54	0.49	0.41
KMC3S075-16	1.14	1.01	0.88	0.75	0.65	0.59	0.54	0.49	0.41
KMC3S100	1.45	1.31	1.15	1.00	0.84	0.77	0.69	0.61	0.48
KMC3S100-8	1.45	1.31	1.15	1.00	0.84	0.77	0.69	0.61	0.48
KMC3S110	1.64	1.46	1.30	1.10	0.92	0.83	0.80	0.65	0.52
KMC3S110-16	1.64	1.46	1.30	1.10	0.92	0.83	0.80	0.65	0.52
KMC3S150	2.18	1.94	1.72	1.50	1.28	1.17	1.06	0.96	0.77
KMC3S200	2.92	2.64	2.35	2.00	1.79	1.64	1.50	1.22	1.14
KMKC3S200-8	2.92	2.64	2.35	2.00	1.79	1.64	1.50	1.22	1.14
KMC3S200-12	2.92	2.64	2.35	2.00	1.79	1.64	1.50	1.22	1.14

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



■ KMC4S (1210) Series Ihold & Itrip Thermal Derating Chart



Ihold Thermal Derating Chart for KMC4S (1210) Series

(Unit: A)

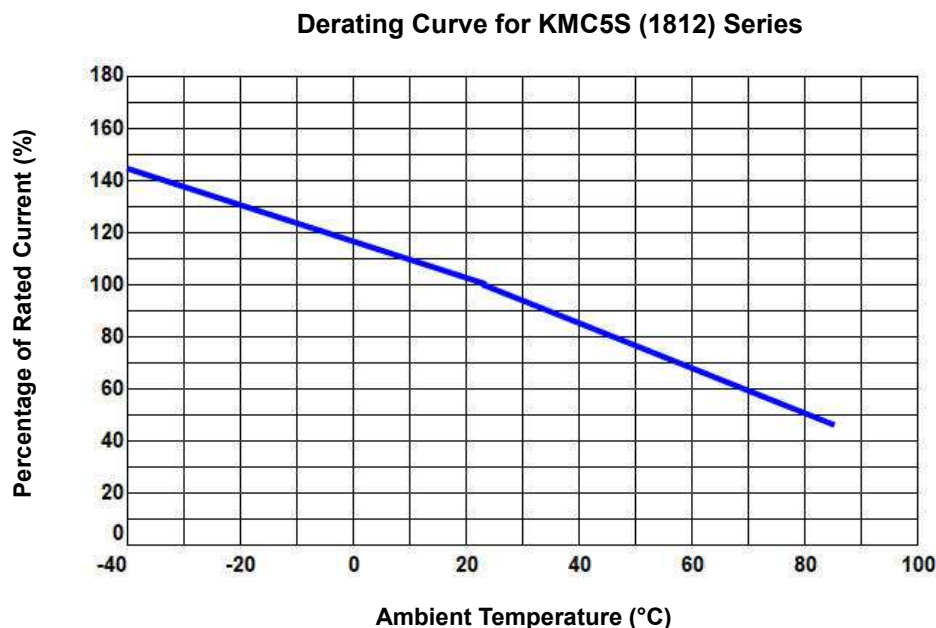
Part No.	Ambient Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
KMC4S005	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.02
KMC4S005-60	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.02
KMC4S010	0.16	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.03
KMC4S010-60	0.16	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.03
KMC4S020	0.29	0.26	0.22	0.20	0.16	0.14	0.13	0.11	0.08
KMC4S035	0.47	0.45	0.40	0.35	0.33	0.28	0.24	0.21	0.18
KMC4S035-16	0.47	0.45	0.40	0.35	0.33	0.28	0.24	0.21	0.18
KMC4S035-30	0.47	0.45	0.40	0.35	0.33	0.28	0.24	0.21	0.18
KMC4S050	0.76	0.67	0.58	0.50	0.43	0.40	0.36	0.32	0.28
KMC4S050-30	0.76	0.67	0.58	0.50	0.43	0.40	0.36	0.32	0.28
KMC4S075	1.00	0.97	0.86	0.75	0.64	0.59	0.54	0.48	0.40
KMC4S075-24	1.00	0.97	0.86	0.75	0.64	0.59	0.54	0.48	0.40
KMC4S110	1.69	1.48	1.29	1.10	0.88	0.76	0.65	0.57	0.43
KMC4S110-12	1.69	1.48	1.29	1.10	0.88	0.76	0.65	0.57	0.43
KMC4S110-16	1.69	1.48	1.29	1.10	0.88	0.76	0.65	0.57	0.43
KMC4S150	2.13	1.92	1.71	1.50	1.26	1.14	1.01	0.89	0.71
KMC4S150-12	2.13	1.92	1.71	1.50	1.26	1.14	1.01	0.89	0.71
KMC4S150-16	2.13	1.92	1.71	1.50	1.26	1.14	1.01	0.89	0.71
KMC4S175	2.80	2.45	2.10	1.70	1.55	1.45	1.35	1.25	1.10
KMC4S175-12	2.80	2.45	2.10	1.70	1.55	1.45	1.35	1.25	1.10

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



■ KMC5S (1812) Series Ihold & Itrip Thermal Derating Chart



Ihold Thermal Derating Chart for KMC5S (1812) Series

(Unit: A)

Part No.	Ambient Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
KMC5S010	0.16	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.03
KMC5S010-60	0.16	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.03
KMC5S014	0.23	0.19	0.17	0.14	0.12	0.10	0.09	0.08	0.06
KMC5S020	0.29	0.26	0.23	0.20	0.17	0.15	0.14	0.12	0.10
KMC5S020-60	0.29	0.26	0.23	0.20	0.17	0.15	0.14	0.12	0.10
KMC5S035	0.50	0.45	0.40	0.35	0.29	0.26	0.24	0.21	0.19
KMC5S035-30	0.50	0.45	0.40	0.35	0.29	0.26	0.24	0.21	0.19
KMC5S035-33	0.50	0.45	0.40	0.35	0.29	0.26	0.24	0.21	0.19
KMC5S035-60	0.50	0.45	0.40	0.35	0.29	0.26	0.24	0.21	0.19
KMC5S050	0.77	0.68	0.59	0.50	0.44	0.40	0.37	0.33	0.29
KMC5S050-24	0.77	0.68	0.59	0.50	0.44	0.40	0.37	0.33	0.29
KMC5S050-30	0.77	0.68	0.59	0.50	0.44	0.40	0.37	0.33	0.29
KMC5S050-33	0.77	0.68	0.59	0.50	0.44	0.40	0.37	0.33	0.29
KMC5S050-60	0.77	0.68	0.59	0.50	0.44	0.40	0.37	0.33	0.29
KMC5S075	1.15	1.01	0.88	0.75	0.65	0.60	0.55	0.49	0.43
KMC5S075-24	1.06	0.95	0.84	0.75	0.60	0.55	0.50	0.45	0.37
KMC5S075-33	1.10	1.00	0.88	0.75	0.66	0.60	0.55	0.47	0.36

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



■ KMC5S (1812) Series Ihold & Itrip Thermal Derating Chart

Ihold Thermal Derating Chart for KMC5S (1812) Series

(Unit: A)

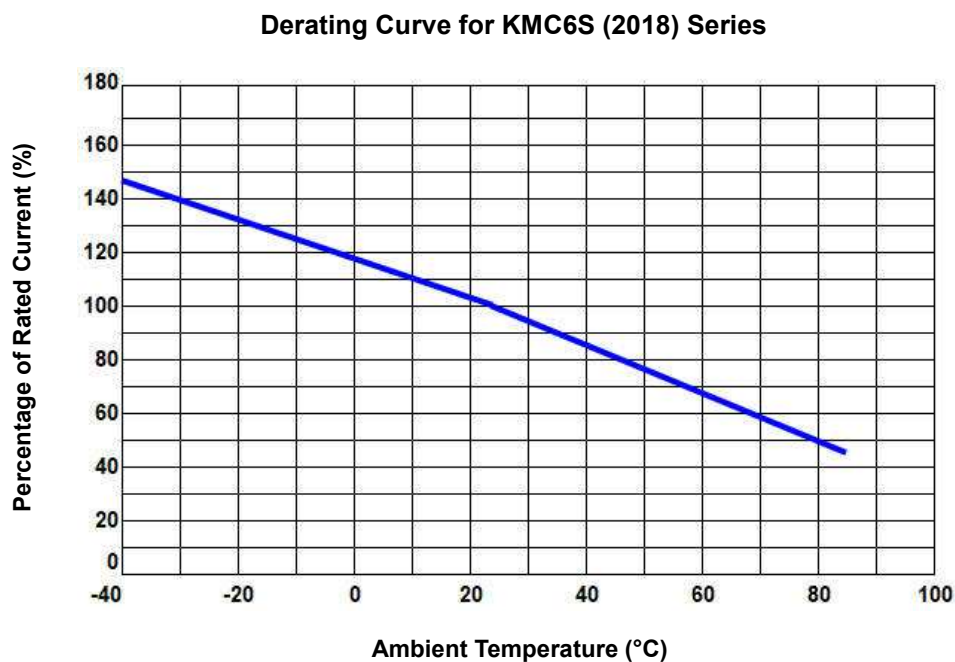
Part No.	Ambient Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
KMC5S110	1.59	1.43	1.26	1.10	0.95	0.87	0.80	0.71	0.60
KMC5S110-16	1.58	1.43	1.27	1.10	0.95	0.85	0.77	0.71	0.58
KMC5S110-24	1.55	1.40	1.25	1.10	0.93	0.83	0.73	0.63	0.50
KMC5S110-33	1.55	1.40	1.25	1.10	0.93	0.83	0.73	0.63	0.50
KMC5S125	2.00	1.75	1.52	1.25	1.00	0.95	0.90	0.75	0.53
KMC5S125-8	2.00	1.75	1.52	1.25	1.00	0.95	0.90	0.75	0.53
KMC5S125-16	2.00	1.75	1.52	1.25	1.00	0.95	0.90	0.75	0.53
KMC5S125-24	2.00	1.75	1.52	1.25	1.00	0.95	0.90	0.75	0.53
KMC5S150	2.30	2.08	1.76	1.50	1.25	1.10	1.00	0.80	0.76
KMC5S150-12	2.04	1.88	1.68	1.50	1.25	1.10	1.00	0.80	0.60
KMC5S150-24	2.05	1.87	1.67	1.50	1.25	1.08	0.95	0.77	0.60
KMC5S160	2.27	2.05	1.83	1.60	1.35	1.25	1.15	1.00	0.85
KMC5S160-12	2.27	2.05	1.83	1.60	1.35	1.25	1.15	1.00	0.85
KMC5S160-16	2.27	2.05	1.83	1.60	1.35	1.25	1.15	1.00	0.85
KMC5S200	2.60	2.44	2.22	2.00	1.80	1.60	1.50	1.07	0.80
KMC5S200-12	2.60	2.44	2.22	2.00	1.80	1.60	1.50	1.07	0.80
KMC5S200-16	2.60	2.44	2.22	2.00	1.80	1.60	1.50	1.07	0.80
KMC5S260	3.40	3.16	2.80	2.60	2.34	2.08	1.95	1.39	1.04
KMC5S260-12	3.40	3.16	2.80	2.60	2.34	2.08	1.95	1.39	1.04
KMC5S260-16	3.40	3.16	2.80	2.60	2.34	2.08	1.95	1.39	1.04
KMC5S300	4.15	3.76	3.46	3.00	2.55	2.28	2.01	1.61	1.33

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



■ KMC6S (2018) Series Ihold & Itrip Thermal Derating Chart



Ihold Thermal Derating Chart for KMC6S (2018) Series

(Unit: A)

Part no	Ambient Operating Temperature							
	-40°C	-20°C	0°C	+23°C	+40°C	+60°C	+70°C	+85°C
KMC6S030	0.45	0.40	0.36	0.30	0.25	0.20	0.19	0.14
KMC6S050	0.92	0.80	0.65	0.55	0.44	0.33	0.30	0.24
KMC6S075	1.05	0.95	0.86	0.75	0.60	0.45	0.40	0.30
KMC6S100	1.66	1.47	1.29	1.10	0.91	0.73	0.63	0.50
KMC6S100-33	1.66	1.47	1.29	1.10	0.91	0.73	0.63	0.50
KMC6S150	2.25	2.00	1.76	1.50	1.25	1.00	0.86	0.68
KMC6S150-33	2.25	2.00	1.76	1.50	1.25	1.00	0.86	0.68
KMC6S200	2.80	2.50	2.18	2.00	1.84	1.50	1.34	1.15
KMC6S260-24	3.82	3.46	3.07	2.60	2.24	1.82	1.60	1.29
KMC6S300	4.40	3.96	3.52	3.00	2.65	2.20	1.96	1.59
KMC6S500	7.29	6.56	5.86	5.00	4.38	3.67	3.26	2.65

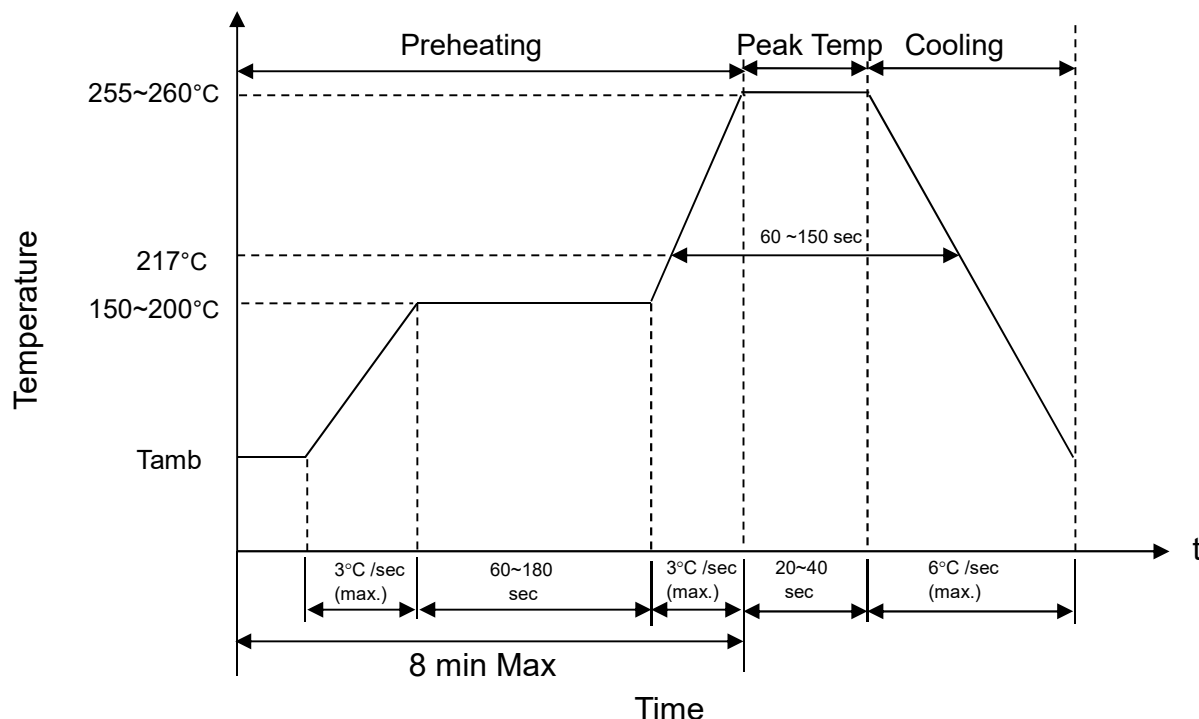
PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



■ Recommended Soldering Condition

● IR-Reflow Soldering Profile



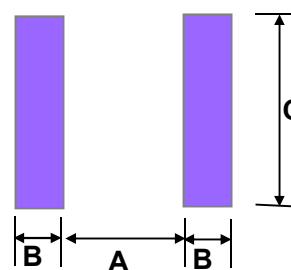
- Welding method of the product is reflow welding, and wave soldering is not recommended.
- Recommended reflow methods: IR, vapor phase, and hot air oven.
- Devices can be cleaned by using standard industry methods and solvents.

Note:

- If reflow temperature exceeds the recommended profile, devices may not meet the performance requirements.
- Devices are not designed to be wave soldered to the bottom side of the board.

■ Recommended Soldering Pad Dimensions (Nominal)

Series	Size	A	B	C
KMC0S	0402	0.40	0.60	0.70
KMC1S	0603	0.80	1.00	1.00
KMC2S	0805	1.20	1.00	1.50
KMC3S	1206	2.00	1.00	1.90
KMC4S	1210	2.00	1.00	2.80
KMC5S	1812	3.45	1.78	3.50
KMC6S	2018	3.40	1.50	4.60



(Unit: mm)

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



■ Reliability

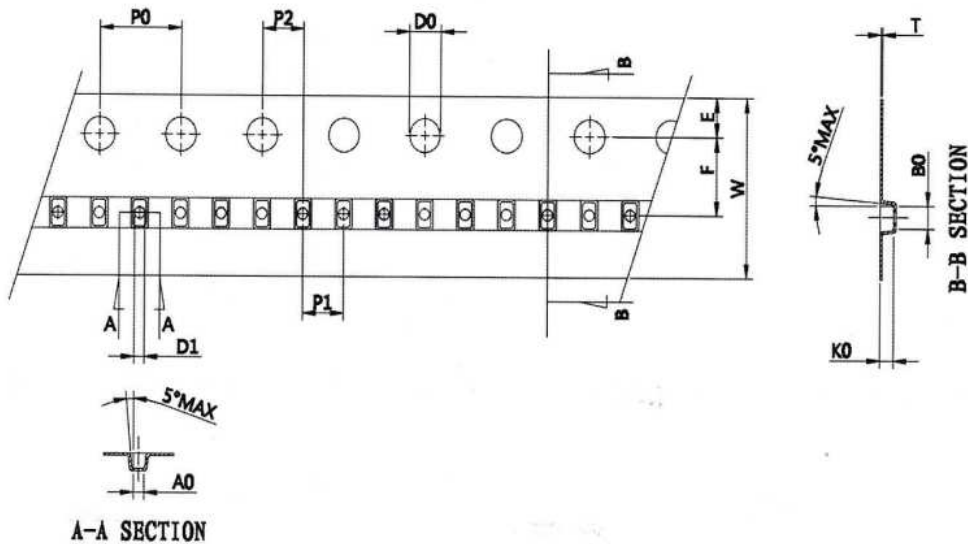
Item	Standard	Test Condition / Methods	Criteria
Passive Aging	IEC 60738-1	85±5°C, 1000±24hrs	±10% typical resistance change
Humidity Aging	Specification Standard	85±5°C, 80~85%RH, 100±5hrs	±5% typical resistance change
Rapid Change of Temperature	IEC 60738-1	85±5/-40±5°C, 20 cycles, Duration:30min	-33% typical resistance change
Overload Endurance	UL 1434	Vmax, 120% Imax, 50 cycles Vmax, 300% Itrip, 6000 cycles	No visible damage
Trip Endurance	UL 1434	Vmax, Itrip ≤ I ≤ Imax , 1000±24hrs	No visible damage
Solderability	IEC 60068-2-58	245 ± 5°C , 3 ± 0.3 sec	At least 95% of terminal electrode is covered by new solder.

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



- Package
 - Taping Specification



◆ KMC0S Series: SMD 0402 Type

For KMC0S009, KMC0S010, KMC0S020, KMC0S035, KMC0S050, KMC0S075, KMC0S100

(Unit: mm)

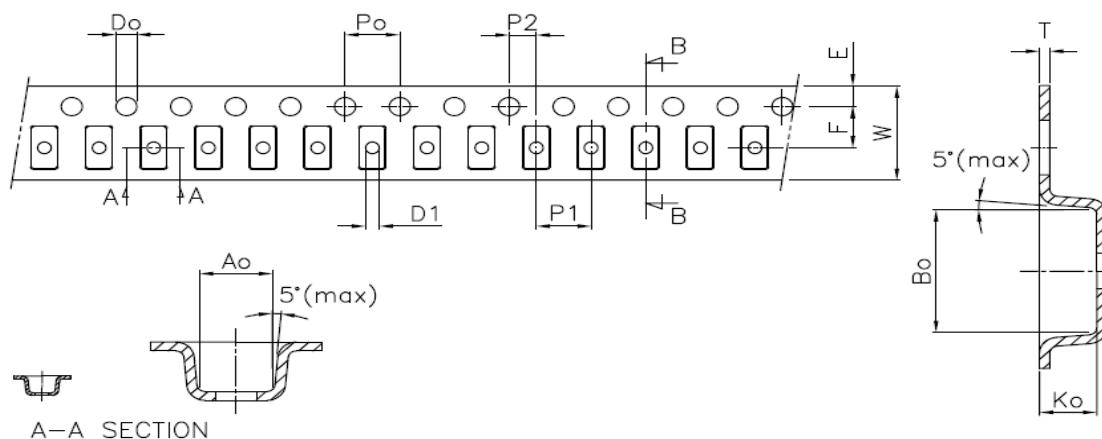
Index Size	A_0	B_0	K_0	P_0	P_1	P_2	T	E	F	D_0	D_1	W	$10P_0$
	± 0.03	± 0.03	± 0.03	± 0.1	± 0.05	± 0.05	-	± 0.05	± 0.05	± 0.05	-	± 0.1	± 0.2
0402	0.69	1.23	0.60	4.00	2.00	2.00	-	1.75	3.50	1.55	-	8.00	40.00

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



● Taping Specification



◆ KMC1S Series: SMD 0603 Type

For KMC1S001, KMC1S002, KMC1S003, KMC1S005

(Unit: mm)

Index Size	A_0	B_0	K_0	P_0	P_1	P_2	T	E	F	D_0	D_1	W	$10P_0$
0603	±0.05	±0.05	±0.05	±0.10	±0.10	±0.05	±0.05	±0.10	±0.05	+0.10/-0	±0.05	±0.10	±0.20

For KMC1S010, KMC1S020, KMC1S025

(Unit: mm)

Index Size	A_0	B_0	K_0	P_0	P_1	P_2	T	E	F	D_0	D_1	W	$10P_0$
0603	±0.05	±0.05	±0.05	±0.10	±0.10	±0.05	±0.05	±0.10	±0.05	+0.10/-0	+0.10/-0.05	+0.30/-0.10	±0.20

For KMC1S004, KMC1S035

(Unit: mm)

Index Size	A_0	B_0	K_0	P_0	P_1	P_2	T	E	F	D_0	D_1	W	$10P_0$
0603	±0.10	±0.15	±0.05	±0.10	±0.10	±0.05	+0.05/-0.08	±0.10	±0.05	±0.05	Min.	±0.20	±0.20

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



◆ KMC2S Series: SMD 0805 Type

Applicable to all KMC2S part numbers except KMC2S002 and KMC2S005.

(Unit: mm)

Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
	±0.10	±0.10	±0.05	±0.08	±0.10	±0.05	±0.10	±0.10	±0.05	±0.05	Min.	±0.10	±0.20
0805	1.60	2.30	0.90	4.00	4.00	2.00	0.25	1.75	3.50	1.55	1.00	8.00	40.00

For KMC2S002 and KMC2S005

(Unit: mm)

Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
	±0.10	±0.10	±0.05	±0.08	±0.10	±0.05	±0.10	±0.10	±0.05	±0.05	Min.	±0.10	±0.20
0805	1.65	2.35	1.05	4.00	4.00	2.00	0.20	1.75	3.50	1.55	1.00	8.00	40.00

◆ KMC3S Series: SMD 1206 Type

For KMC3S005, KMC3S010, KMC3S012, KMC3S016, KMC3S020, KMC3S020-33, KMC3S025, KMC3S025-24, KMC3S035, KMC3S035-24, KMC3S035-30, KMC3S050, KMC3S075, KMC3S100, KMC3S100-8, KMC3S110

(Unit: mm)

Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10	±0.05	±0.10	±0.10	±0.05	Min.	±0.30	±0.20
1206	1.85	3.45	0.85	4.00	4.00	2.00	0.23	1.75	3.50	1.55	1.00	8.00	40.00

For KMC3S005-30, KMC3S010-30, KMC3S016-48, KMC3S050-15, KMC3S050-16, KMC3S050-18, KMC3S050-24, KMC3S075-16, KMC3S110-16, KMC3S150, KMC3S200, KMC3S200-8, KMC3S200-12

(Unit: mm)

Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
	+0.1/-0	+0.1/-0	±0.05	±0.10	±0.10	±0.10	±0.05	±0.10	±0.10	±0.05	Min.	±0.30	±0.20
1206	1.95	3.55	1.40	4.00	4.00	2.00	0.23	1.75	3.50	1.55	1.00	8.00	40.00

◆ KMC4S Series: SMD 1210 Type

For all KMC4S part numbers

(Unit: mm)

Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10	±0.05	±0.10	±0.10	±0.05	Min.	±0.30	±0.20
1210	2.82	3.63	1.47	4.00	4.00	2.00	0.23	1.75	3.50	1.55	1.00	8.00	40.00

◆ KMC5S Series: SMD 1812 Type

For KMC5S010, KMC5S010-60, KMC5S014, KMC5S020, KMC5S020-60, KMC5S035, KMC5S035-30, KMC5S035-33, KMC5S050, KMC5S050-24, KMC5S050-30, KMC5S050-33, KMC5S075, KMC5S110, KMC5S110-24, KMC5S125-8, KMC5S125, KMC5S150, KMC5S160, KMC5S200

(Unit: mm)

Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
1812	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10	±0.03	±0.10	±0.10	±0.05	Min.	±0.30	±0.20
	3.50	5.00	0.90	4.00	8.00	2.00	0.25	1.75	5.50	1.55	1.50	12.00	40.00

For KMC5S075-24, KMC5S075-33, KMC5S110-16, KMC5S110-33, KMC5S125-16, KMC5S125-24, KMC5S150-12, KMC5S150-24, KMC5S160-12, KMC5S160-16, KMC5S200-12, KMC5S200-16, KMC5S260, KMC5S260-12, KMC5S260-16, KMC5S300

(Unit: mm)

Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
1812	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10	±0.05	±0.10	±0.10	±0.05	Min.	±0.30	±0.20
	3.56	4.94	1.70	4.00	8.00	2.00	0.25	1.75	5.50	1.55	1.50	12.00	40.00

For KMC5S035-60, KMC5S050-60

(Unit: mm)

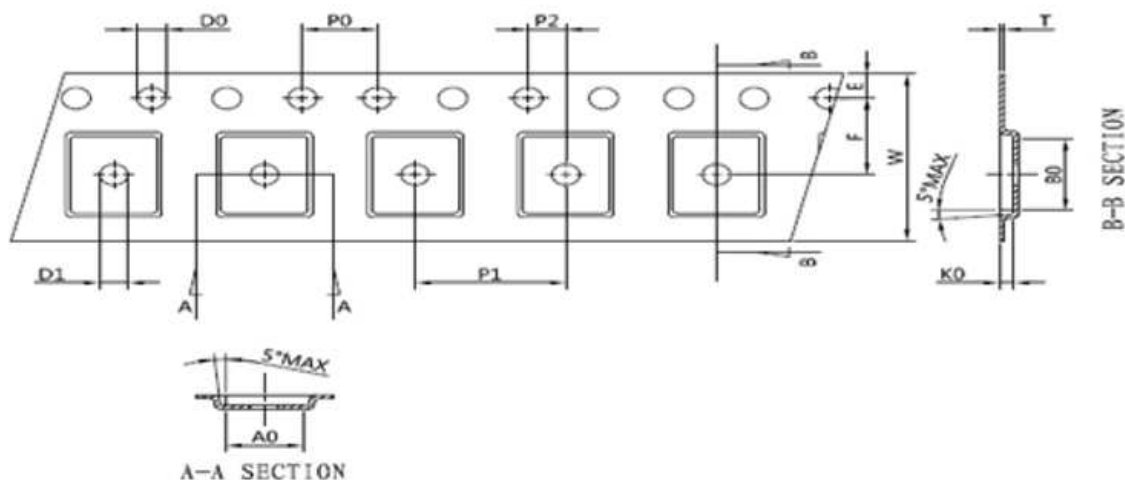
Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
1812	±0.10	±0.10	±0.10	±0.08	±0.10	±0.05	±0.03	±0.10	±0.05	±0.05	Min.	±0.10	±0.20
	3.58	4.93	2.10	4.00	8.00	2.00	0.25	1.75	5.50	1.55	1.50	12.00	40.00

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



● Taping Specification



◆ KMC6S Series: SMD 2018 Type

For KMC6S200

(Unit: mm)

Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
2018	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10	±0.05	±0.10	±0.10	±0.05	Min.	±0.30	±0.20
	4.60	5.60	0.75	4.00	8.00	2.00	0.25	1.75	5.55	1.55	1.50	12.00	40.00

For KMC6S030, KMC6S050, KMC6S075, KMC6S100, KMC6S100-33, KMC6S150, KMC6S150-33,
KMC6S260-24, KMC6S300, KMC6S500

(Unit: mm)

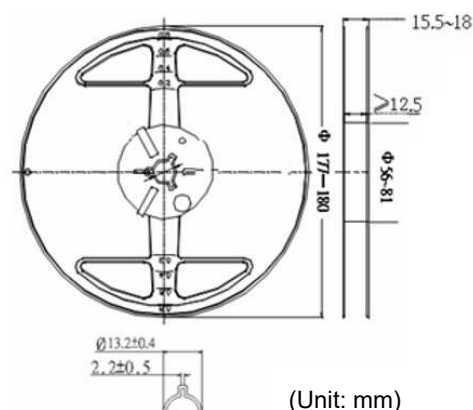
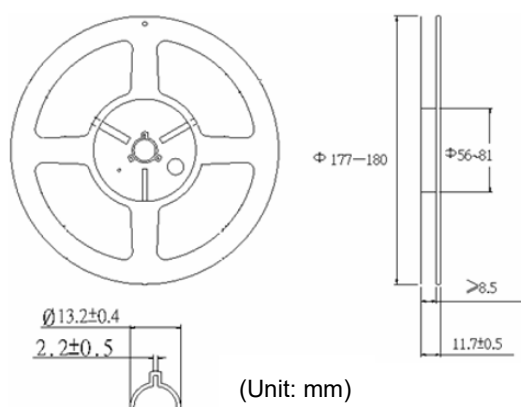
Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
2018	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10	±0.05	±0.10	±0.10	±0.05	Min.	±0.30	±0.20
	4.60	5.60	1.36	4.00	8.00	2.00	0.25	1.75	5.50	1.55	1.50	12.00	40.00

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



Quantity



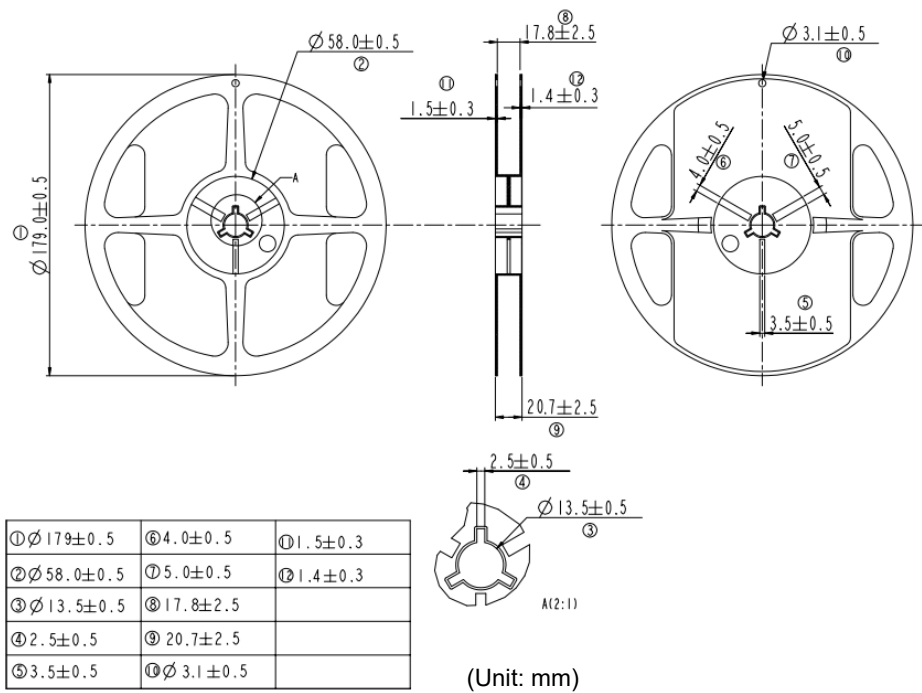
Size	Part no	Quantity (pcs/reel)
0402	For all part numbers	10,000
0603	KMC1S010, KMC1S020, KMC1S025	6,000
	KMC1S001, KMC1S002, KMC1S003, KMC1S004, KMC1S005, KMC1S035	5,000
0805	KMC2S006, KMC2S008, KMC2S010, KMC2S010-24, KMC2S010-30, KMC2S012	4,000
	KMC2S002, KMC2S005, KMC2S020, KMC2S020-12, KMC2S020-24, KMC2S035, KMC2S050, KMC2S050-9, KMC2S050-12, KMC2S075, KMC2S110	5,000
1206	KMC3S005, KMC3S010, KMC3S012, KMC3S016, KMC3S020, KMC3S020-33, KMC3S025, KMC3S025-24, KMC3S035, KMC3S035-24, KMC3S035-30, KMC3S050, KMC3S075, KMC3S100, KMC3S100-8, KMC3S110	2,500
	KMC3S0005-30, KMC3S010-30, KMC3S016-48, KMC3S050-15, KMC3S050-16, KMC3S050-18, KMC3S050-24, KMC3S075-16, KMC3S0110-16, KMC3S150, KMC3S200, KMC3S200-8, KMC3S200-12	5,000
1210	For all part numbers	3,000
1812	KMC5S010, KMC5S010-60, KMC5S014, KMC5S020, KMC5S020-60, KMC5S035, KMC5S035-30, KMC5S035-33, KMC5S050, KMC5S050-24, KMC5S050-30, KMC5S050-33, KMC5S075, KMC5S110, KMC5S110-24, KMC5S125, KMC5S125-8, KMC5S150, KMC5S160, KMC5S200	2,000
	KMC5S035-60, KMC5S050-60, KMC5S075-24, KMC5S075-33, KMC5S110-16, KMC5S110-33, KMC5S125-16, KMC5S125-24, KMC5S150-12, KMC5S150-24, KMC5S160-12, KMC5S160-16, KMC5S200-12, KMC5S200-16, KMC5S260, KMC5S260-12, KMC5S260-16, KMC5S300	1,000

PPTC- Polymer PTC Resettable Fuse: KMC Series

SMD Type



Quantity



Size	Part no	Quantity (pcs/reel)
2018	KMC6S200	2,000
	KMC6S030, KMC6S050, KMC6S075, KMC6S100, KMC6S100-33, KMC6S150, KMC6S150-33, KMC6S260-24, KMC6S300, KMC6S500	1,000

Warehouse Storage Conditions of Products

- Storage Conditions:
 - Storage Temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
 - Relative humidity: $\leq 75\% \text{RH}$
 - Thermistors must be kept away from sunlight and stored in a non-corrosive atmosphere.
- Period of Storage: 1 year