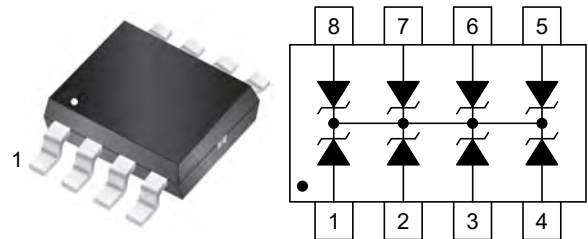


### Features

- 300Watts peak pulse power ( $t_p = 8/20\mu s$ )
- SOIC-8 Package
- Protects Seven I/O lines
- Low clamping voltage
- Low leakage current
- Low capacitance
- Transient protection for high-speed data lines to :  
IEC 61000-4-2 (ESD)  $\pm 30kV$  (air),  $\pm 30kV$  (contact)  
IEC 61000-4-4 (EFT) 40A (5/50ns)  
IEC 61000-4-5 (Lightning)12A (8/20 $\mu s$ )



### Mechanical Data

- **Case:** SOIC-8 (plastic package).  
Lead free; RoHS compliant; Halogen free
- **Molding Compound Flammability Rating:**  
UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:  
260 °C/10 sec. at terminals

### Applications

- I<sup>2</sup>C serial ports
- LAN/WAN equipment
- Set Top Box (STB)
- Peripherals
- Microprocessor based equipment
- Notebooks, desktops, servers
- RS-232 and RS-422 data line protection

### Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Pulse Power ( $T_P=8/20\mu s$ )	$P_{PP}$	300	W
ESD contact/air discharge (IEC-61000-4-2)	$V_{ESD}$	30/30	kV
Peak Pulse Current ( $t_P = 8/20\mu s$ )	$I_{PP}$	12	A
Junction Temperature	$T_J$	-55 to +125	°C
Storage temperature	$T_{STG}$	-55 to +150	°C

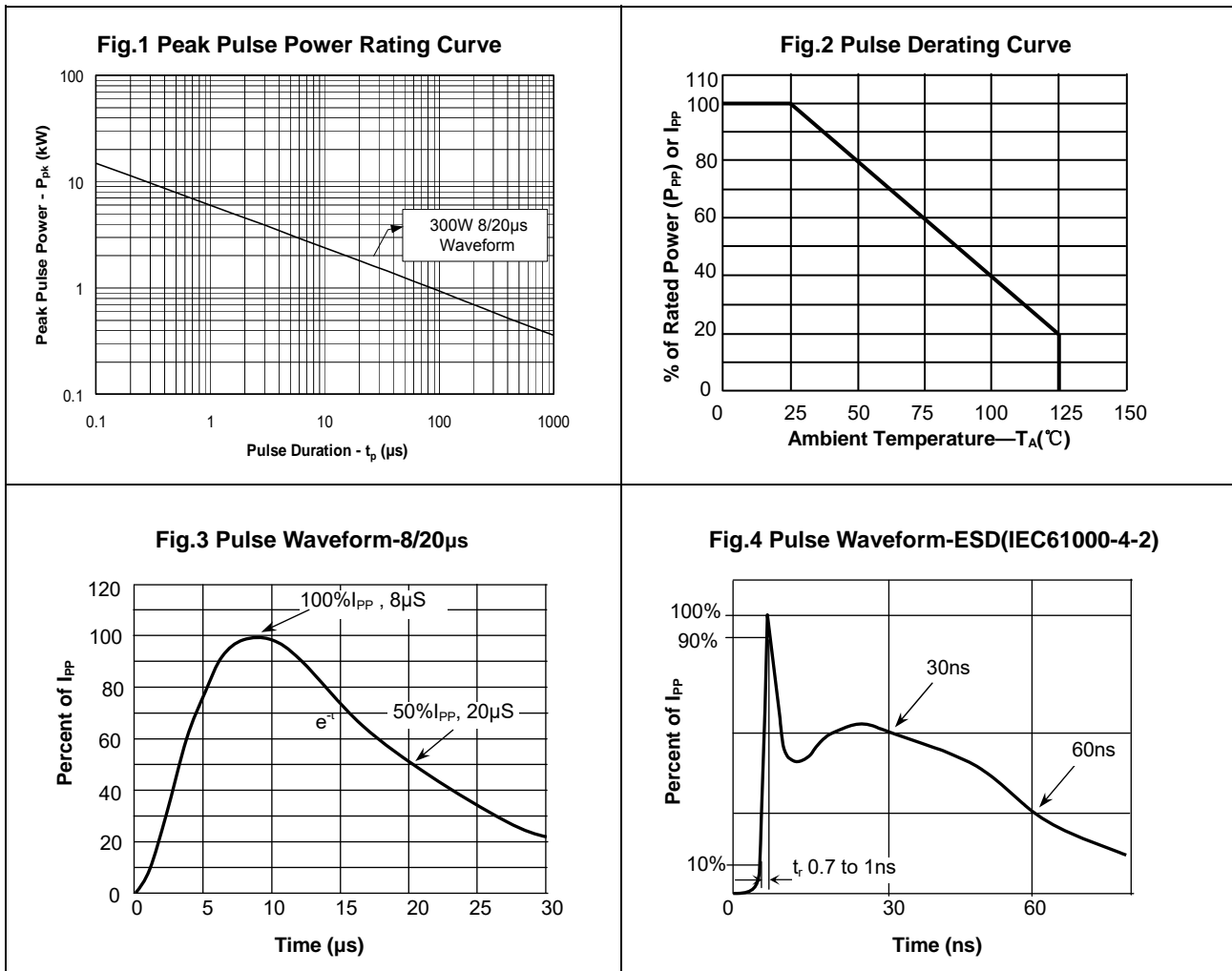
### Electrical Characteristics

( $T_A = 25$  °C unless otherwise specified)

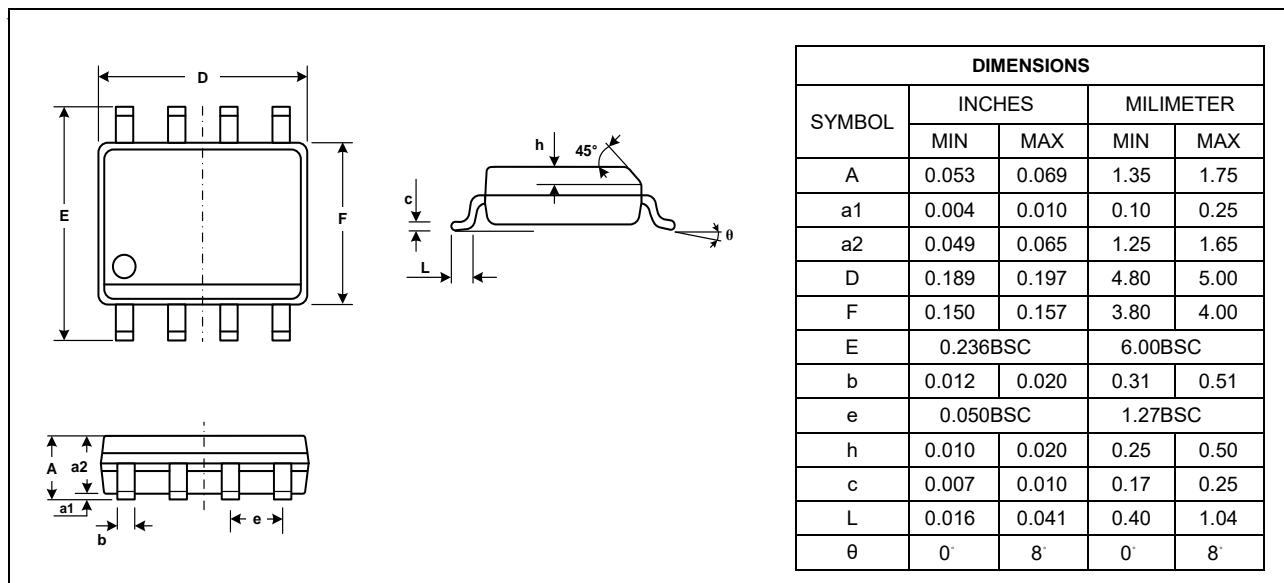
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	$V_{RWM}$				15	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	16.7			V
Reverse Leakage Current	$I_R$	$V_R=15V$			0.5	$\mu A$
Clamping Voltage	$V_C$	$I_{PP}=12A, T_P=8/20\mu s$			27	V
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$ ; Between I/O pins and GND		30		pF



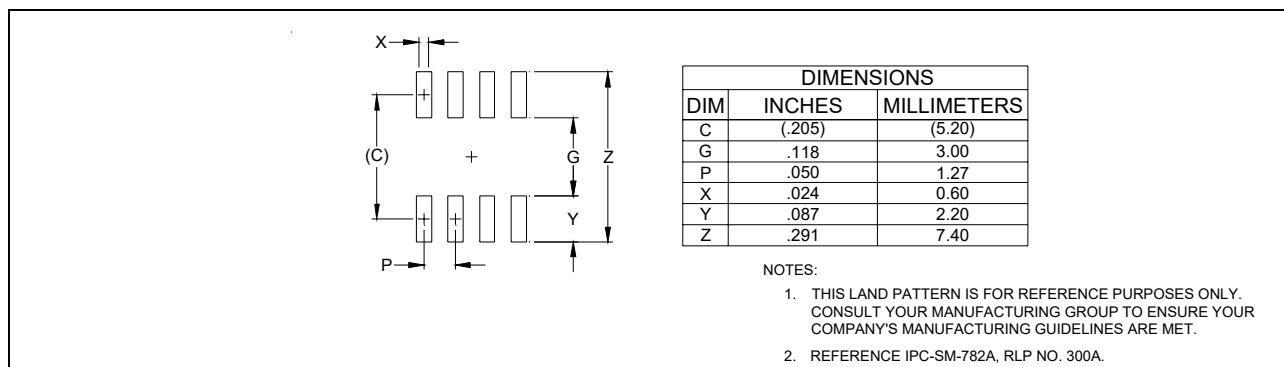
Typical Characteristics ( $T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified)



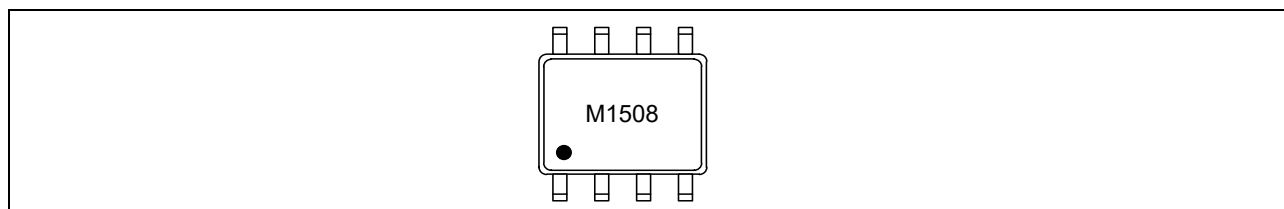
### Package Dimensions



### Pad Dimensions



### Marking



### Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
YEDSOP81512AV	SOIC-8	Tape and reel	2500pcs / reel	EIA STD RS-481