

Features

- 350 Watts Peak Pulse Power per Line ($t_p=8/20\mu s$)
- Protects Four or Five I/O Lines
- Low Clamping Voltage
- Operating Voltage : 3.3V
- Low Leakage Current
- Complies with following standards:
 - IEC61000-4-2 (ESD) $\pm 25kV$ (air), $\pm 20kV$ (contact)
 - IEC61000-4-4 (EFT) 40A (5/50ns)

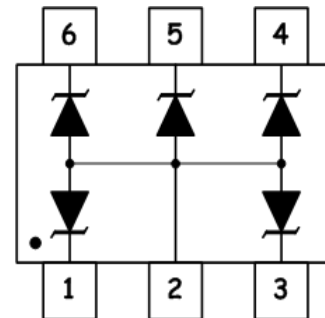
Dimensions SOT-26



Applications

- RS-232, RS-422 & RS-423 Data Lines
- Audio/Video Inputs
- Wireless Network Systems
- Microprocessor Based Equipment
- Medical Sensors
- Notebook Computers

Pin Configuration



Mechanical Characteristics

- SOT-26 Package
- Molding Compound Flammability Rating : UL 94V-0
- Weight 14 Milligrams (Approximate)
- Quantity Per Reel : 3,000pcs
- Reel Size : 7 inch
- Lead Finish : Lead Free
- Device Marking : TC3

Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppp	350	W
ESD per IEC 61000-4-2 (Air)	VESD	±25	KV
ESD per IEC 61000-4-2 (Contact)		±20	
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	TSTJ	-55 to +150	°C

Electrical Characteristics (TA=25°C unless otherwise specified)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
VRWM	Reverse Working Peak Voltage				3.3	V
VBR	Reverse Breakdown Voltage	IT = 1mA	4			V
IR	Reverse Leakage Current	VRWM = 3.3V			5	μA
VC	Clamping Voltage	IPP = 5 A (8/20μs)			7.5	V
VC	Clamping Voltage	IPP = 25 A (8/20μs)			14	V
CJ	Capacitance	VR = 0V, f = 1MHz			250	pF

Characteristic Curves

Figure 1. 8 x 20 μ s Waveform

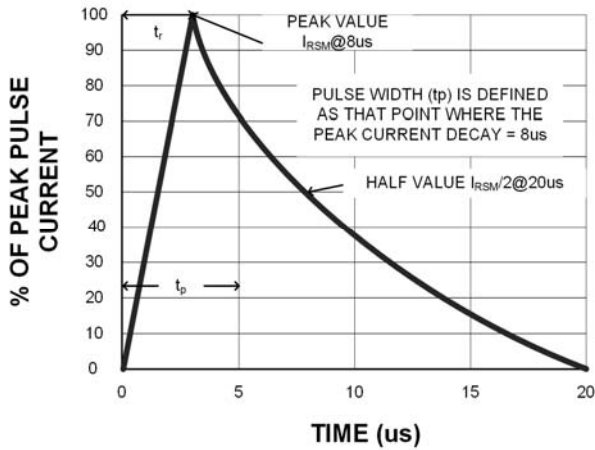


Figure 2. Power Derating Curve

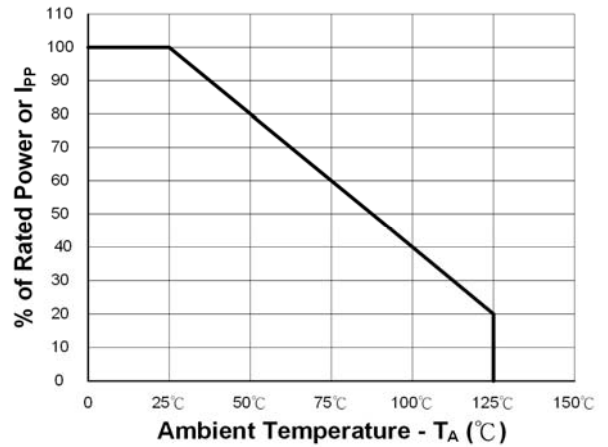


Figure 3. Clamping Voltage vs. Peak Pulse Current ($t_p=8/20\mu s$)

