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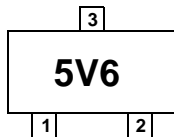
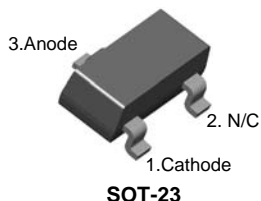
24 Watt Peak Power Zener Transient Voltage Suppressor

Applications

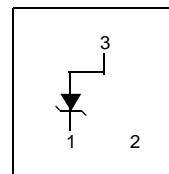
- For use as transient overvoltage protection for voltage and ESD sensitive equipment like laptop computers, HDD, printers, cellular phones, and other applications.

Features

- SOT-23 Zener for ESD Protection
- Pb-free
- Maximum Clamping voltage = 8V @ Peak Pulse Current= 3A
- Working Peak Reverse Voltage = 3V
- HBM = 16KV (Class 3) ESD Rating
- Flammability Rating UL94 V-O



Connection Diagram



Absolute Maximum Ratings * T_a = 25°C unless otherwise noted

Symbol	Parameter	Value	Unit
V _{RWM}	Working Peak Reverse Voltage	3.0	V
P _D	Total Power Dissipation at 25°C Derate above 25°C	225 1.8	mW mW/°C
P _{pk}	Peak Power Dissipation @1.0mS	27	W
T _{STG}	Storage Temperature	-55 to +150	°C
T _J	Operating Junction Temperature	+150	°C
R _{θJA}	Thermal Resistance Junction to Ambient, FR-5 Board	550	°C/W

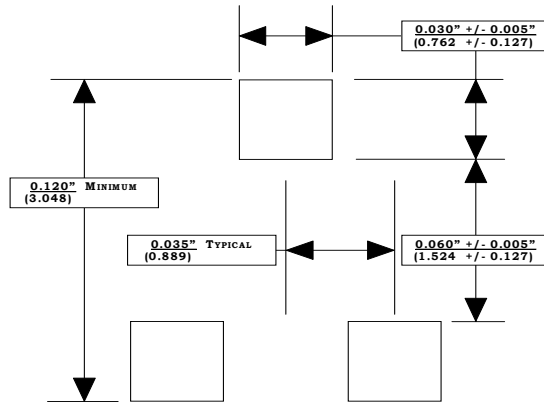
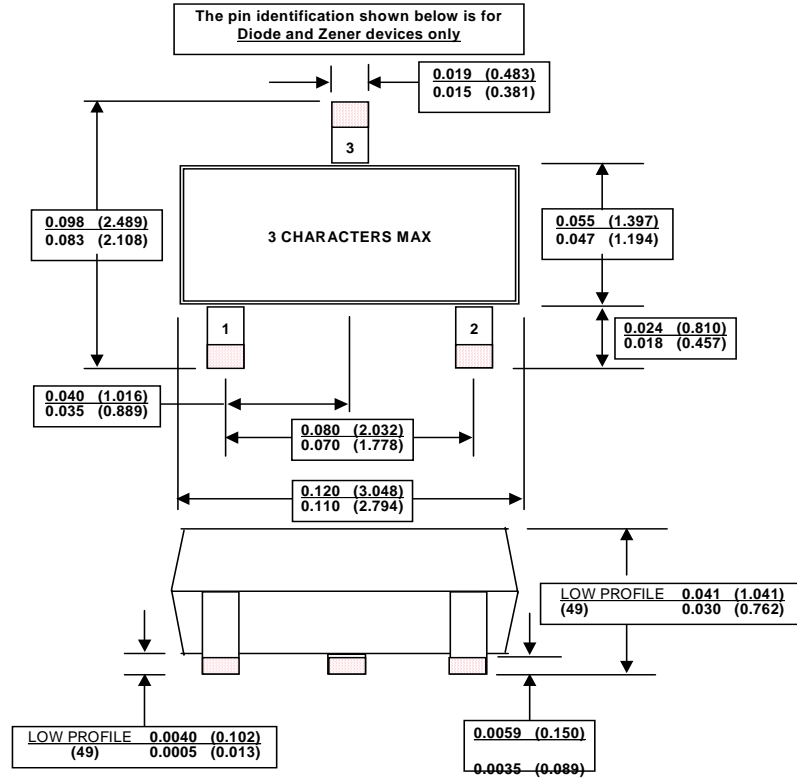
* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Electrical Characteristics T_C = 25°C unless otherwise noted

Symbol	Parameter	Conditions	Min.	Max.	Units
V _Z	Zener Voltage	I _{ZT} = 20mA _{D.C} I _{ZT} = 20mA _{Pulse} 26mS	5.32 5.31	5.88 5.85	V V
Z _Z	Zener Impedance	I _{ZT} = 20mA		11	Ω
Z _{ZK}	Zener Knee Impedance	I _{ZK} = 250μA		1600	Ω
I _R	Reverse Leakage	V _R = 3V		5	μA
V _F	Forward Voltage	I _F = 10mA		900	mV
V _{CL}	Clamping Voltage	I _{PP} =3A Square wave T _p =300uS		8.0	V

Mechanical Dimensions

SOT-23



RECOMMENDED SOLDER PADS
FOR
SOT-23



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FACT®	OPTOPLANAR™®	SuperSOT™-6	
FAST®	PACMAN™	SuperSOT™-8	
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- A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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