

Features

- Halogen Free. "Green" Device (Note 1)
- High Current Capability
- Lead Free Finish/RoHS Compliant(Note 2) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 20°C/W Junction to Lead(Note 3)
- Thermal Resistance: 70°C/W Junction to Ambient(Note 3)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SMD110PLS	D10S	100V	70V	100V

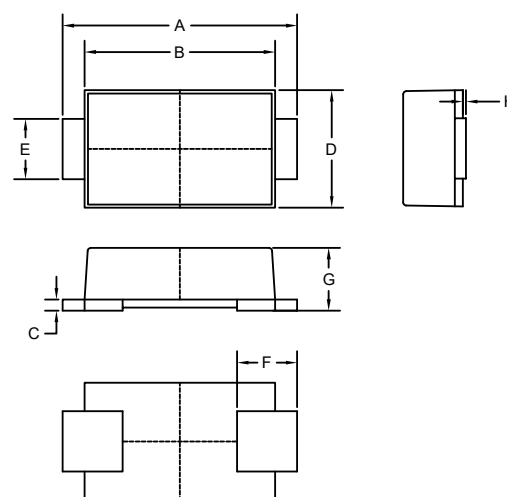
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	$T_L=130^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	30A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V_F	0.85V	$I_{FM}=1.0\text{A};$ $T_J=25^\circ\text{C}$ (Note 4)
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.01mA 5mA	$T_J=25^\circ\text{C}$ $T_J=125^\circ\text{C}$
Typical Junction Capacitance	C_J	50pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

- Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7a.
3. Mounted on P.C.B with 3mm*3mm copper pad areas.
4. Pulse test: Pulse width 300 μsec , Duty cycle 2%

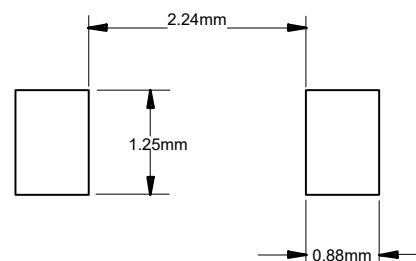
1 Amp Schottky Rectifier 100 Volts

SOD-123TFL



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.138	0.154	3.50	3.90	
B	0.114	0.122	2.90	3.10	
C	0.004	0.010	0.10	0.25	
D	0.067	0.079	1.70	2.00	
E	0.033	0.041	0.85	1.05	
F	0.017	0.033	0.43	0.83	
G	0.035	0.043	0.90	1.08	
H	0.000	0.004	0.00	0.10	

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Forward Current Derating Curve

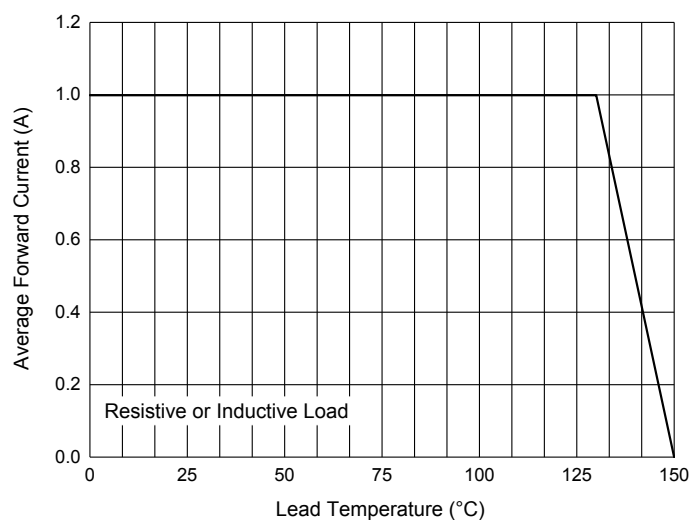


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

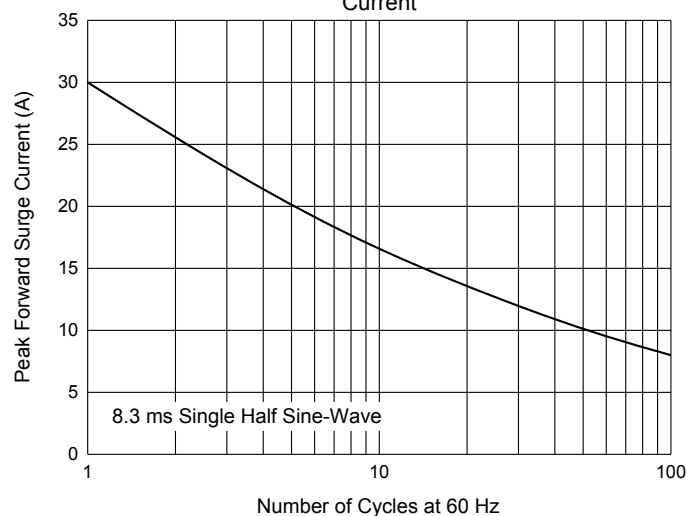


Fig. 3 - Typical Instantaneous Forward Characteristics

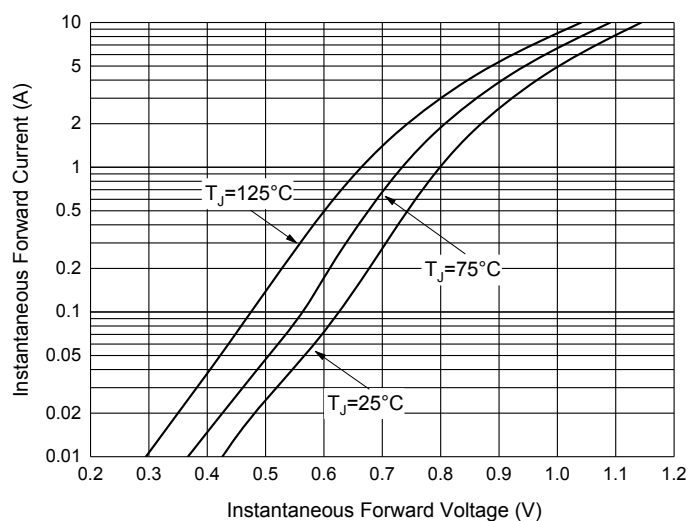
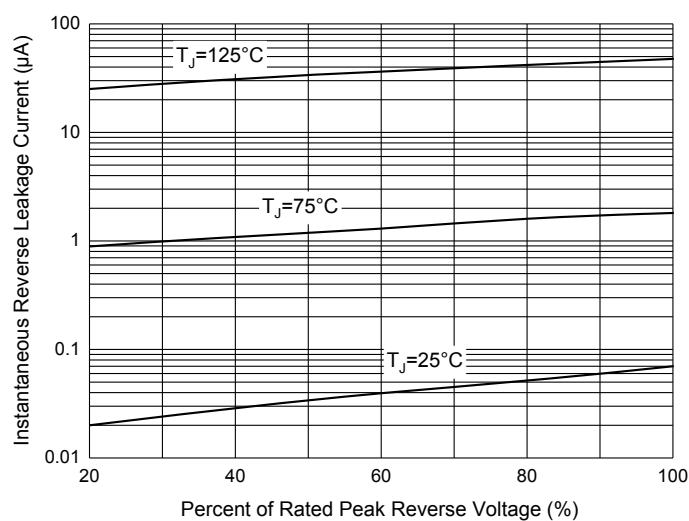


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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