

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Current Capability
- Low Forward Voltage
- Lead Free Finish/RoHS Compliant(Note 1) ("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 +125°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 28°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SMD15PL	D5	50V	35V	50V
SMD16PL	D6	60V	42V	60V
SMD18PL	D8	80V	56V	80V

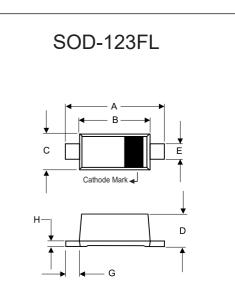
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T∟=90°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage			
SMD15PL-16PL	V _F	0.70V	I _{FM} =1.0A;
SMD18PL		0.85V	T _J =25°C (Note 2)
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 10mA	TJ=25°C TJ=100°C
Typical Junction Capacitance SMD15PL-16PL SMD18PL	CJ	110pF 30pF	Measured at 1.0MHz, V _R =4.0V

Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

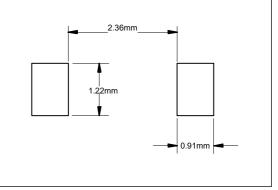
2. Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

1 Amp Schottky Rectifier 50 to 80 Volts



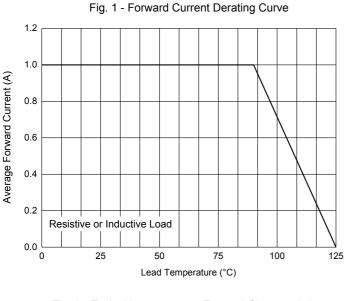
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.130	0.152	3.30	3.85		
В	0.100	0.122	2.55	3.10		
С	0.055	0.075	1.40	1.90		
D	0.035	0.053	0.90	1.35		
E	0.020	0.041	0.50	1.05		
G	0.010		0.25			
Н		0.010		0.25		

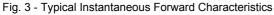
Suggested Solder Pad Layout





Curve Characteristics





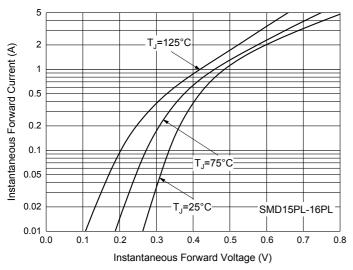
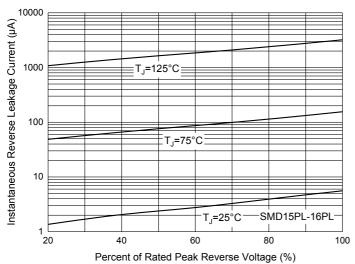


Fig. 5 - Typical Reverse Leakage Characteristics



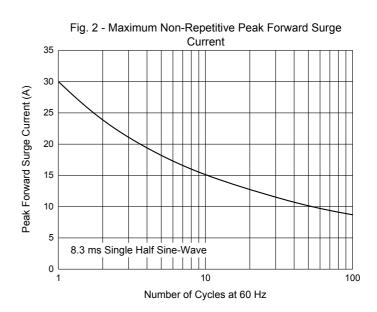
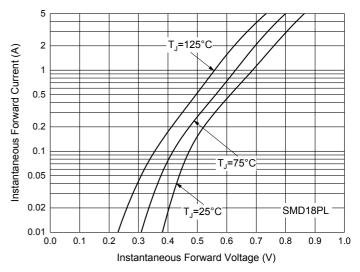
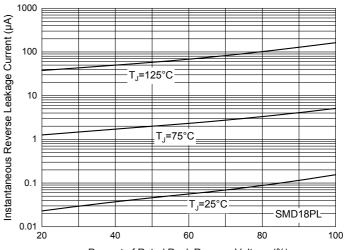


Fig. 4 - Typical Instantaneous Forward Characteristics







Percent of Rated Peak Reverse Voltage (%)



Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel	

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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