

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- · High Surge Capability
- · Low Forward Voltage
- Low Profile Package
- 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: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Typical Thermal Resistance(Note2): 60°C/W Junction to Ambient
- Typical Thermal Resistance(Note2): 30°C/W Junction to Case
- Typical Thermal Resistance(Note2): 21°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
SMD2150PL	M15	150V	105V	150V
SMD220PL	M20	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

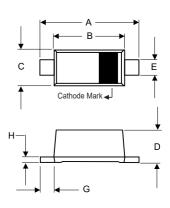
Average Forward Current	I _{F(AV)}	2.0A	T _L =90°C
Surge Forward Current	I _{FSM}	50A	8.3ms,Half Sine
Peak Repetitive Forward Current	I _{FRM}	4.0A	Rated VR, Square Wave, 20 kHz, T _C = 105°C
Power Dissipation	P _D	1.68W	
Forward Voltage	V _F	0.9V(Max)	I _{FM} =2.0A;T _J =25°C
Maximum DC Reverse Current	I _R	0.01mA	T _J =25°C
Typical Junction Capacitance	CJ	210pF(Typ)	f=1.0MHz,VR=4V

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

2. Thermal Resistance:PC Board Mounted on 0.2*0.2"(5*5mm) copper pad area.

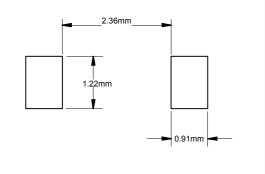
Schottky Barrier Diodes 150 to 200 Volts

SOD-123FL



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		
Е	0.020	0.041	0.50	1.05		
G	0.010		0.25			
Ι		0.010		0.25		

Suggested Solder Pad Layout





Curve Characteristics

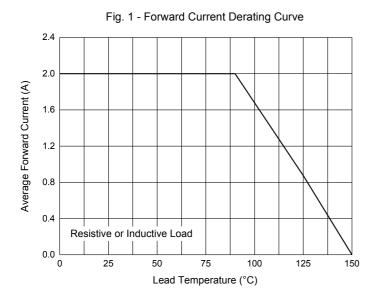
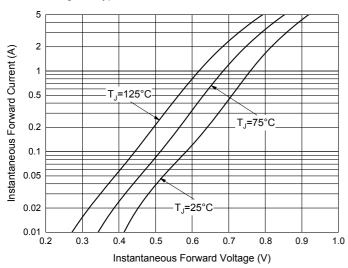


Fig. 3 - Typical Instantaneous Forward Characteristics



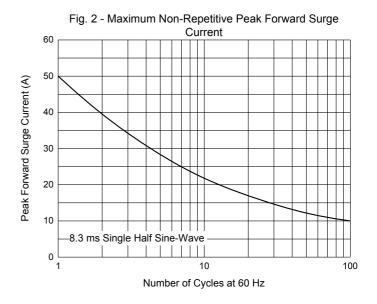
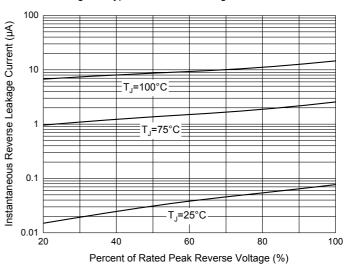


Fig. 4 - Typical Reverse Leakage Characteristics





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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