

Features

- Halogen Free. "Green" Device (Note 1)
- High Surge Capability
- Low Forward Voltage
- Low Profile Package
- 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: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Typical Thermal Resistance(Note 3): 60°C/W Junction to Ambient
- Typical Thermal Resistance(Note 3): 30°C/W Junction to Case
- Typical Thermal Resistance(Note 3): 21°C/W Junction to Lead

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

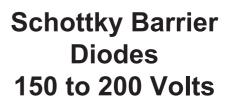
Electrical Characteristics @ 25°C Unless Otherwise Specified

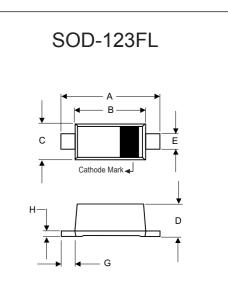
Average Forward Current	I _{F(AV)}	2.0A	T∟=90°C
Surge Forward Current	I _{FSM}	50A	8.3ms,Half Sine
Peak Repetitive Forward Current	I _{FRM}	4.0A	Rated VR, Square Wave, 20 kHz, T _C = 105°C
Power Dissipation	P_D	1.68W	
Forward Voltage	V_{F}	0.9V(Max)	I _{FM} =2.0A;T _J =25°C
Maximum DC Reverse Current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

Note: 1. 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.

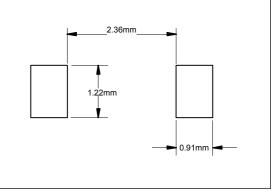
3. Thermal Resistance:PC Board Mounted on 0.2*0.2"(5*5mm) copper pad area.





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

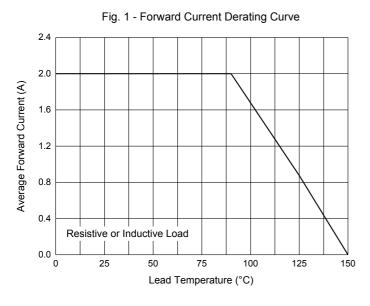
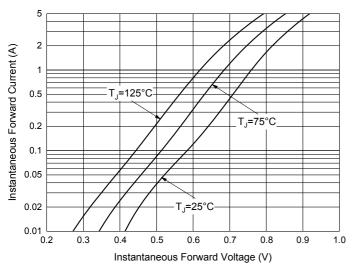
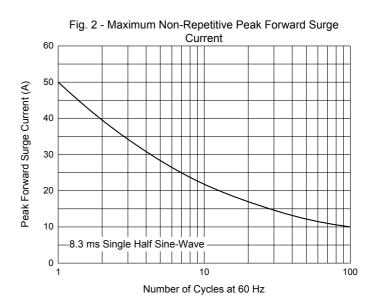
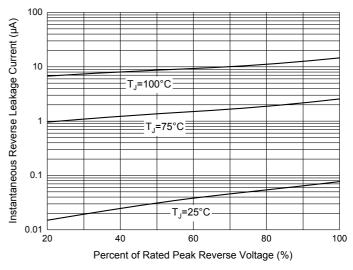


Fig. 3 - Typical Instantaneous Forward Characteristics











Ordering Information

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

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