

#### **Features**

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

## **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance(Note3): 60°C/W Junction to Ambient
- Typical Thermal Resistance(Note3): 30°C/W Junction to Case
- Typical Thermal Resistance(Note3): 21°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SMD210HPL	M10H	100V	70V	100V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

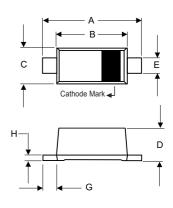
Average Forward Current	I <sub>F(AV)</sub>	2.0A	T <sub>L</sub> =90°C	
Surge Forward Current	I <sub>FSM</sub>	50A	8.3ms,Half Sine	
Power Dissipation	P <sub>D</sub>	1.68W		
Forward Voltage	V <sub>F</sub>	0.85V(Max)	I <sub>FM</sub> =2.0A;T <sub>J</sub> =25°C	
Maximum DC Reverse Current	I <sub>R</sub>	1.0μA(Typ) 5.0μA(Max)	T <sub>J</sub> =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.

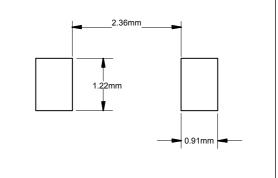
# 2 Amp Schottky Rectifier 100 Volts

## SOD-123FL



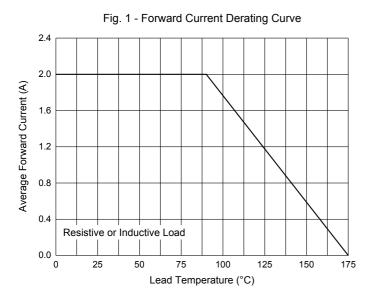
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.130	0.152	3.30	3.85		
В	0.100	0.122	2.55	3.10		
С	0.055	0.075	1.40	1.90		
D	0.035	0.053	0.90	1.35		
Е	0.020	0.041	0.50	1.05		
G	0.010		0.25			
Η		0.010		0.25		

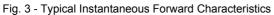
#### Suggested Solder Pad Layout

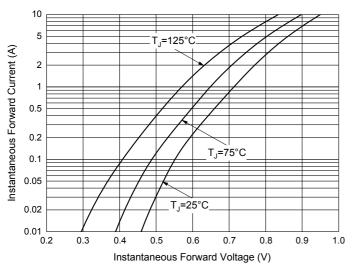




## **Curve Characteristics**







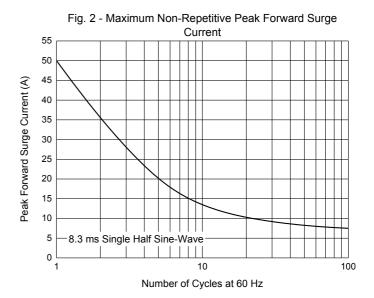
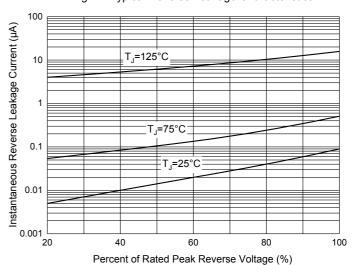


Fig. 4 - Typical Reverse Leakage Characteristics





## **Ordering Information**

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

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