

#### **Features**

- Halogen Free. "Green" Device (Note 1)
- · High Surge Capability
- AEC-Q101 Qualified
- 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: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance(Note 3): 85°C/W Junction to Ambient
- Typical Thermal Resistance(Note 3): 35°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
SMD220PLHE3	M20	200V	140V	200V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

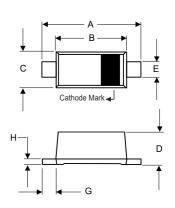
Average Forward Current	I <sub>F(AV)</sub>	2.0A	T <sub>L</sub> =115°C
Surge Forward Current	I <sub>FSM</sub>	50A	8.3ms,Half Sine
Voltage Rate of Change (Rated V <sub>R</sub> )	dV/dt	10000V/us	
Forward Voltage	V <sub>F</sub>	0.82V(Typ) 0.90V(Max) 0.75V(Max)	I <sub>F</sub> =2.0A;T <sub>J</sub> =25°C I <sub>F</sub> =2.0A;T <sub>J</sub> =25°C I <sub>F</sub> =2.0A;T <sub>J</sub> =125°C
DC Reverse Current	I <sub>R</sub>	5uA(Max) 15uA(Typ) 150uA(Max)	T <sub>J</sub> =25°C T <sub>J</sub> =125°C T <sub>J</sub> =125°C
Typical Junction Capacitance	CJ	40pF	f=1.0MHz,V <sub>R</sub> =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.

- $\hbox{2. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7a.}\\$
- 3. Thermal Resistance: Mounted on P.C.B with 3mm\*3mm copper pad areas.

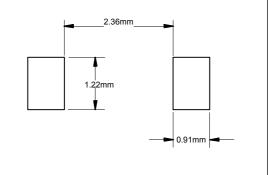
# 2 Amp Schottky Barrier Diodes 200 Volts

## 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			
Н		0.010		0.25		

#### Suggested Solder Pad Layout





### **Curve Characteristics**

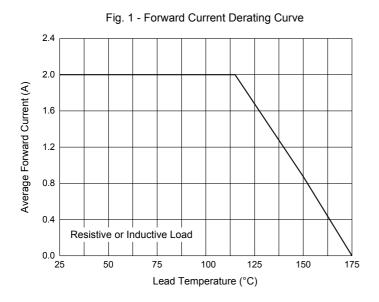
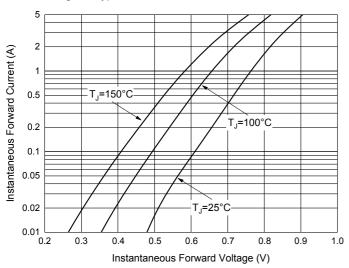


Fig. 3 - Typical Instantaneous Forward Characteristics



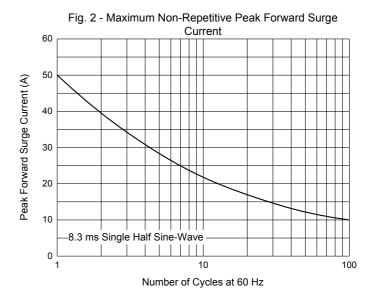
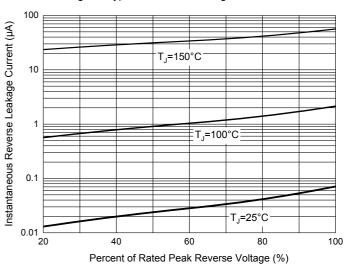


Fig. 4 - Typical Reverse Leakage Characteristics





## **Ordering Information**

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

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