

# Schottky Barrier Diode

### **Features**

- · Low forward voltage
- · Fast switching time
- · Surface mount package ideally suited for automatic

#### insertion

## **Applications**

Schottky barrier detector and switching diodes

### **Mechanical Data**

· Case: SOD-123F Plastic

· Case Material: "Green" molding compound, UL

• Flammability classification 94V-0, (No Br. Sb. Cl) •

#### Moisture

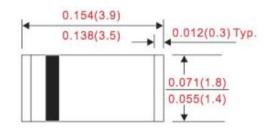
• Sensitivity: Level 1 per J-STD-020D

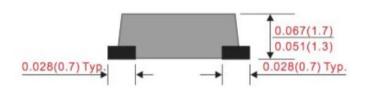
· Lead Free in RoHS 2002/95/EC Compliant

## **Packing & Order Information**

3,000/Reel







Graphic symbol



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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Maximum Ratings (Tc=25°C unless otherwise noted)						
Parameter	Symbol	BL1200W	Unit			
Maximum repetitive peak reverse voltage	VRRM	200	V			
Working peak reverse voltage	VRWM	200	V			
Maximum DC blocking voltage	VDC	200	V			
Maximum average forward rectified current Total device	IF(AV)	1	A			
Peak forward surge current						
8.3ms single half sine-wave superimposed	IFSM	50	A			
on rated load (JEDEC Method)						
Thermal resistance, junction to ambient air	Rθja	88	°C/W			
Operating junction temperature range	TJ	-55 to +150	°C			
Storage temperature range	TSTG	-55 to +150	°C			



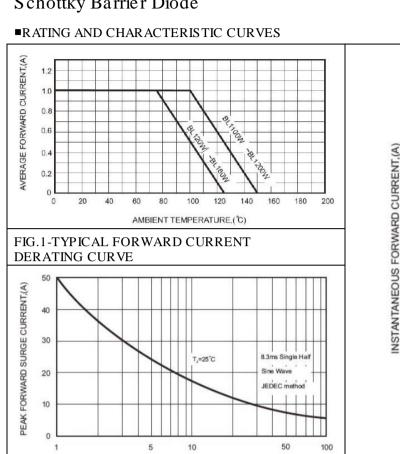
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Electrical characteristics (Tc=25°C unless otherwise noted)					
Parameter	Symbol	Value		Unit	
		Typical	Max	Onit	
Instantaneous forward voltage at IF=1A, Tj=25°C	VF		0.82	V	
Maximum reverse current at VR=200V	IR	100		u'A	
Reverse recovery time (IF=IR=10mA Irr=0.1*IR	Trr	5.0			
RL=100Ω)		5.0	J	ns	

Note: Mount on FR4, P.C.B



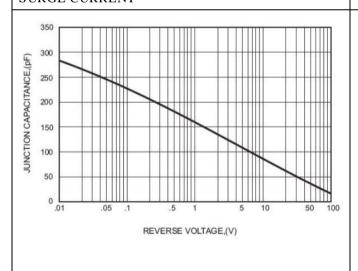
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CHARACTERISTICS 50 INSTANTANEOUS FORWARD CURRENT, (A) 10 3.0 1.0 T,=25°C ulse Width 300us-1% Duty Cycle 0.1 .01 .3 .5 .7 .9 1.1 1.3 1.5 FORWARD VOLTAGE,(V)

FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

NUMBER OF CYCLES AT 60Hz



CHARACTERISTICS 100 10 REVERSE LEAKAGE CURRENT, (mA) 1.0 T,=125°C T\_=25°C .01 80 100 PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

FIG.5-TYPICAL REVERSE CHARACTERISTICS

FIG.2-TYPICAL FORWARD CHARCTERISTICS

FIG.4-TYPICAL JUNCTION CAPACITANCE



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