

### SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volt CURRENT 0.2 Ampere

#### **FEATURES**

- · Low turn-on voltage
- · Fast switching
- PN Junction Guard Ring for Transient and ESD Protection
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

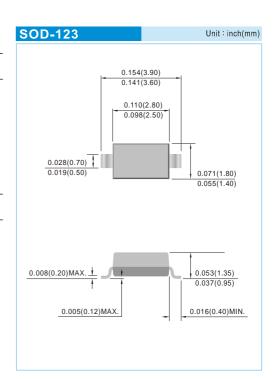
- Case: SOD-123, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026

• Polarity : Color band cathode

• Approx. Weight: 0.0004 ounces, 0.01 grams







### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAT42W	BAT43W	UNITS
Marking Code	-	L2	L3	-
Maximum Recurrent Peak Reverse Voltage	Vrrm	30		V
Maximum RMS Voltage	VRMS	21		V
Maximum DC Blocking Voltage	VDC	30		V
Maximum Average Forward Current at TA=25°C	I F(AV)	0.2		А
Peak Forward Surge Current, 1.0ms single half sine-wave superimposed on rated load	İFSM	4.0		А
Maximum Instantaneous Forward Voltage	VF	0.4 / 10mA 1.0 / 200mA	0.33 / 2.0mA 1.0 / 200mA	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	0.5		μА
Maximum Thermal Resistance	RθJA	635		°C / W
Operating Junction and Storage Temperature Range	ТЈ,Тѕтс	-55 to +125		°C

Note: 1.CJ at VR=1, f=1MHz

2.Mounted on FR-4 boad with recommded pad layout



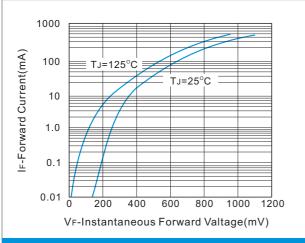


Fig. 1-TYPICAL FORWARD CHARACTERISTIC

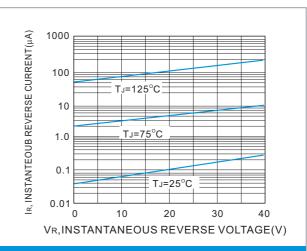


Fig. 2-TYPICAL REVERSE CHARACTERISTICS

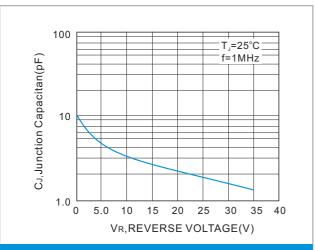


Fig. 3-TYPICAL JUNCTION CAPACITANCE

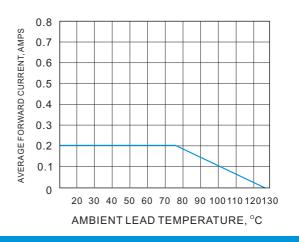


Fig. 4-FORWARD DERATING CURVE

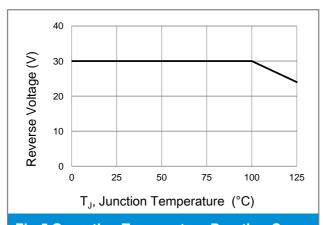
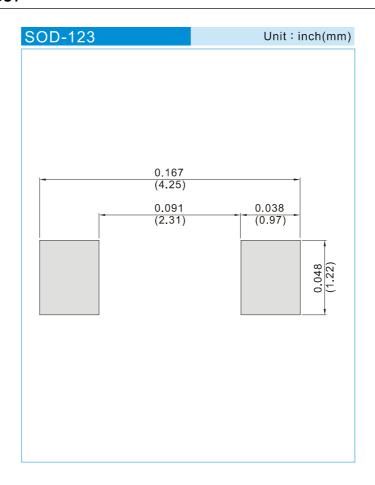


Fig.5 Operating Temperature Derating Curve



### MOUNTING PAD LAYOUT



### **ORDER INFORMATION**

• Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel



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