



# BAT42WS~BAT43WS

## SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volts CURRENT 0.20 Amperes

#### **FEATURES**

- · Low turn-on voltage
- · Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

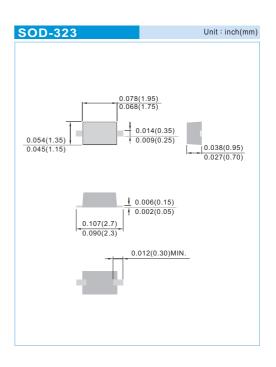
Case: SOD-323, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Polarity: Color band cathode Approx. Weight: 0.004 gram•







### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	BAT42WS	BAT43WS	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=75°C	I F(AV)	0.2		А
Peak Forward Surge Current, 1.0ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	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	Reja	635		°C / W
Operating Junction and Storage Temperature Range	ТJ,Тsтg	-55 to +125		°C

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

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

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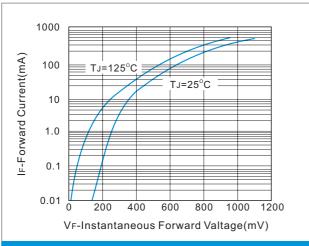


Fig. 1-TYPICAL FORWARD CHARACTERISTIC

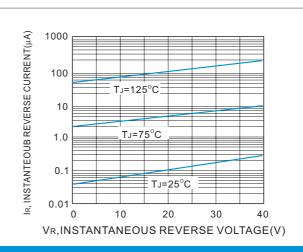


Fig. 2-TYPICAL REVERSE CHARACTERISTICS

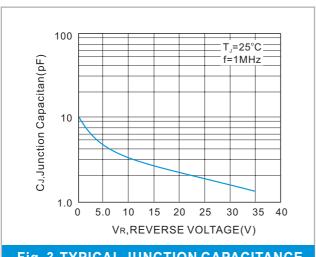


Fig. 3-TYPICAL JUNCTION CAPACITANCE

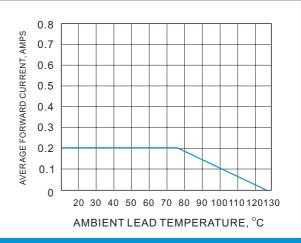


Fig. 4-FORWARD DERATING CURVE

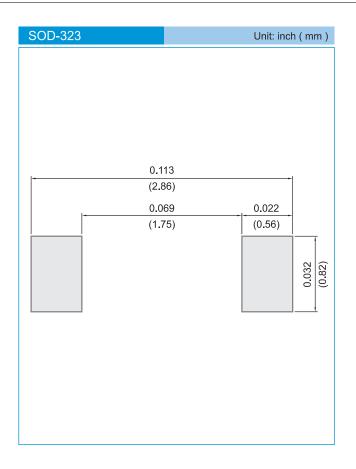
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#### **MOUNTING PAD LAYOUT**



### **ORDER INFORMATION**

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel

### **LEGAL STATEMENT**

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