

#### SURFACE MOUNT SCHOTTKY BARRIER

0.2 Ampere VOLTAGE 30 Volt **CURRENT** 

#### **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**

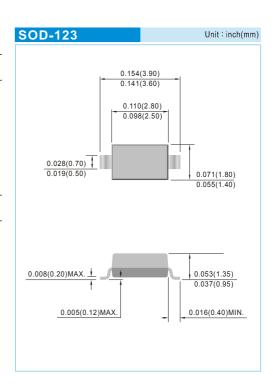
- · Case: SOD-123, Plastic
- · Terminals: Solderable per MIL-STD-750, Method 2026

· 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	3	V	
Maximum RMS Voltage	VRMS	2	V	
Maximum DC Blocking Voltage	VDC	3	V	
Maximum Average Forward Current at Ta=25°C	l F(AV)	0.2		А
Peak Forward Surge Current, 1.0ms single half sine-wave superimposed on rated load	I FSM	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	Т <sub>J</sub> ,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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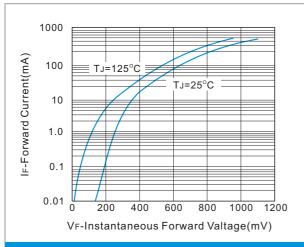


Fig. 1-TYPICAL FORWARD CHARACTERISTIC

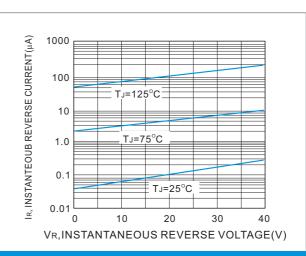


Fig. 2-TYPICAL REVERSE CHARACTERISTICS

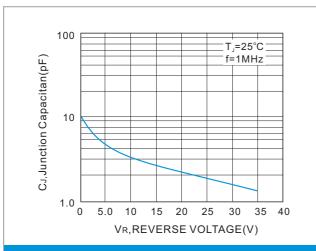


Fig. 3-TYPICAL JUNCTION CAPACITANCE

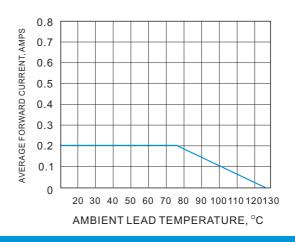


Fig. 4-FORWARD DERATING CURVE

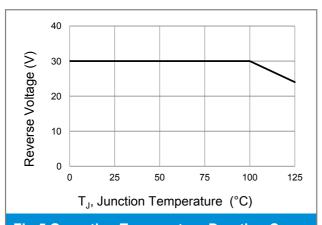


Fig.5 Operating Temperature Derating Curve

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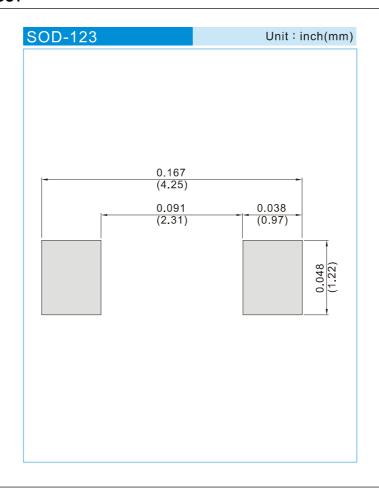
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### MOUNTING PAD LAYOUT



### **ORDER INFORMATION**

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

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### Part No.\_packing code\_Version

BAT42W\_R1\_00001 BAT42W\_R2\_00001

### For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1st Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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