



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

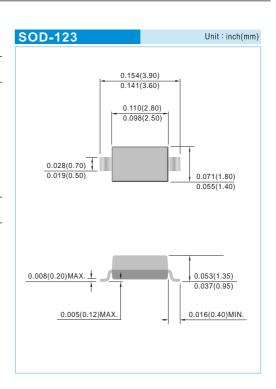
- Case: SOD-123, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026

• 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	3	V	
Maximum RMS Voltage	VRMS	2	V	
Maximum DC Blocking Voltage	VDC	3	V	
Maximum Average Forward Current at TA=25°C	I F(AV)	0.2		Α
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





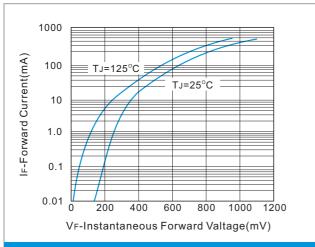


Fig. 1-TYPICAL FORWARD CHARACTERISTIC

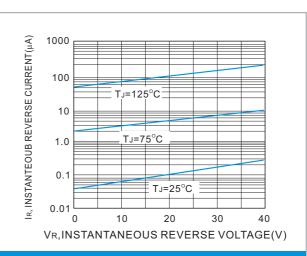


Fig. 2-TYPICAL REVERSE CHARACTERISTICS

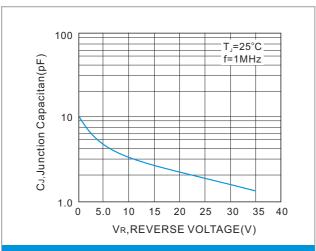


Fig. 3-TYPICAL JUNCTION CAPACITANCE

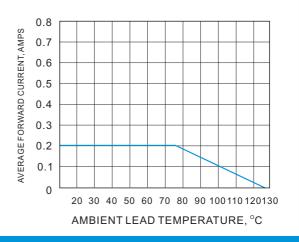


Fig. 4-FORWARD DERATING CURVE

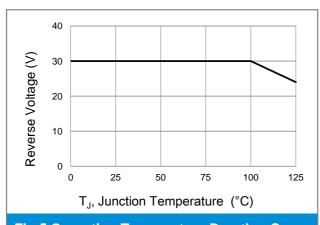
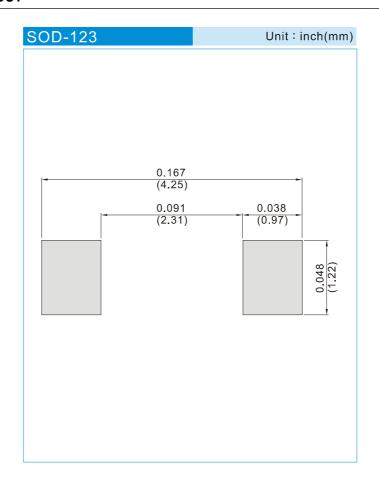


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

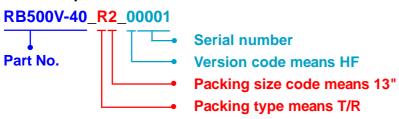




Part No_packing code_Version

BAT42W_R1_00001 BAT42W_R2_00001

For example:



Packing Code XX				Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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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