

# BAT42WS~BAT43WS

30 Volt

### SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE

### JRRENT 0.2 Ampere

FEATURES

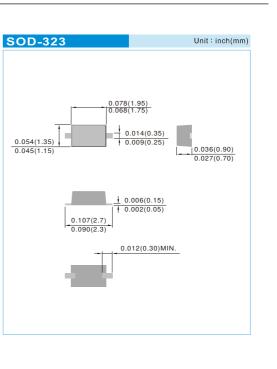
- · Low turn-on voltage
- · Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### **MECHANICAL DATA**

- Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.00014 ounces, 0.004 grams



Cathode Anode



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

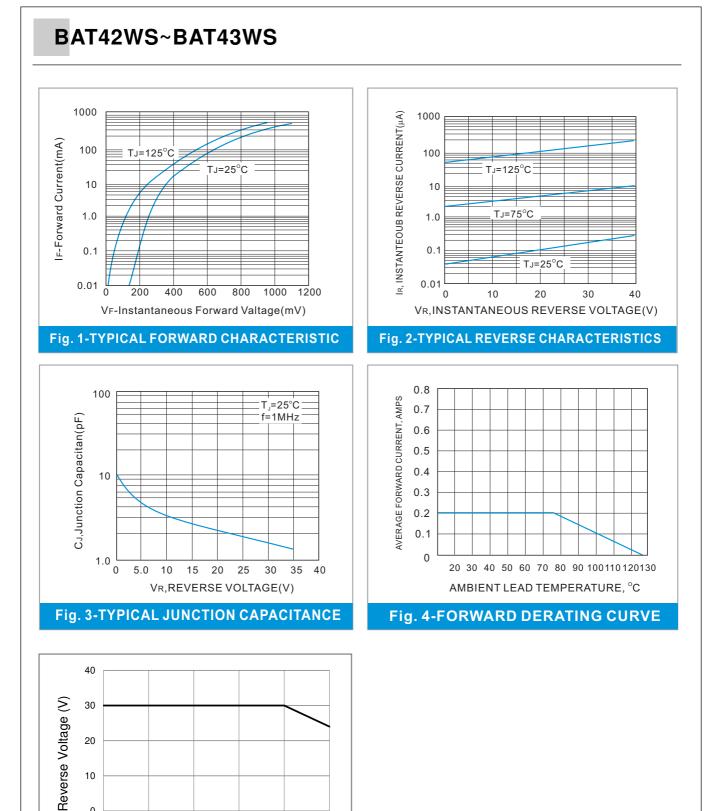
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

Parameter	Symbol	BAT42WS	BAT43WS	Units
Marking Code		L2	L3	
Maximum Recurrent Peak Reverse Voltage	VRRM		V	
Maximum RMS Voltage	VRMS		V	
Maximum DC Blocking Voltage	VDC		V	
Maximum Average Forward Current	I F(AV)	(	А	
Peak Forward Surge Current, 1ms single half sine-wave superimposed on rated load	I FSM		А	
Maximum Instantaneous Forward Voltage	VF	0.4 /10mA 1 / 200mA	0.33 / 2mA 1 / 200mA	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I R	0.5		μΑ
Maximum Thermal Resistance	Reja	6	°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





75

100

125

0 0

May 13,2016-REV.07

25

50

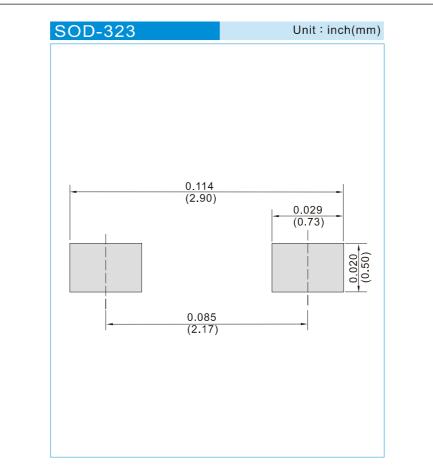
T<sub>J</sub>, Junction Temperature (°C)

Fig.5 Operating Temperature 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



BAT42WS~BAT43WS									
Part No_packing code_Version BAT42WS_R1_00001 BAT42WS_R2_00001									
For example : RB500V-40_R2_00001 Part No. Version code means HF Packing size code means 13" Packing type means T/R									
Packing Code XX				Version Code XXXXX					
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code			
Tape and Ammunition Box (T/B)	A	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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