

BAT42WS~BAT43WS

30 Volt

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE

CURRENT 0.2 Ampere

FEATURES

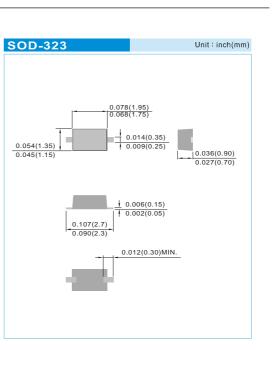
- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-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

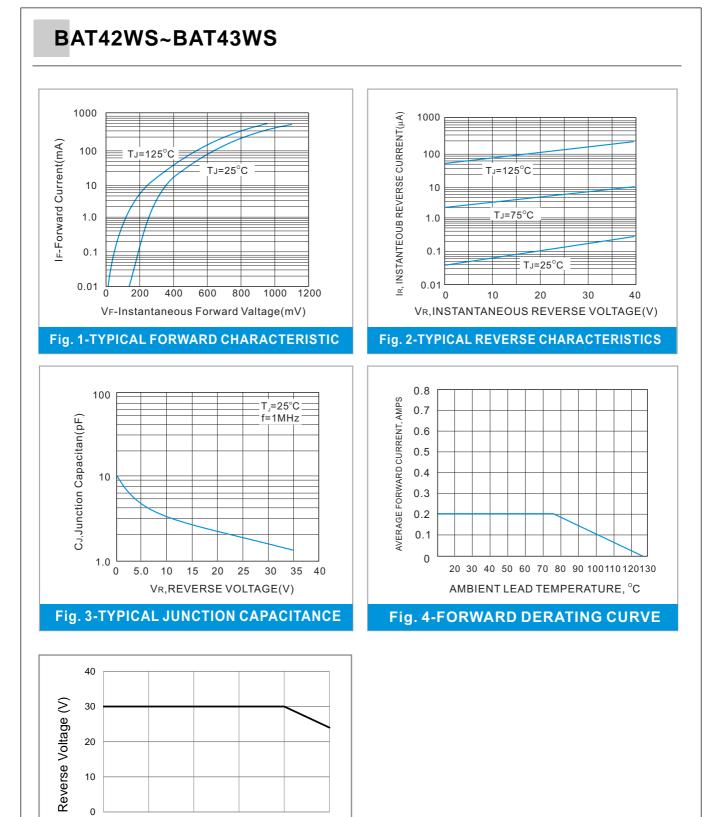
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

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		A	
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	l r	(μΑ	
Maximum Thermal Resistance	Reja	6	°C / W	
Operating Junction and Storage Temperature Range	Тյ,Тѕтс	-55 to +125		°C

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

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





0

25

50

T_J, Junction Temperature (°C)

Fig.5 Operating Temperature Derating Curve

75

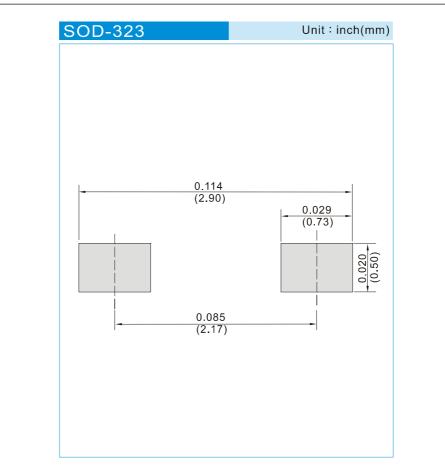
100

125



BAT42WS~BAT43WS

MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel



BAT42WS~BA	T43W	IS				
Part No_packing code BAT42WS_R1_00001 BAT42WS_R2_00001	_Versi	on				
For example : RB500V-40_R2_0000	1					
Part No.	→ Ver → Pac	rial number sion code means HF cking size code means 13'				
Packing Code XX						
	Packing	cking type means T/R		Versi	on Code	XXXXX
Packing type	Packing 1 st Code		2 nd Code			XXXXXX 2 nd ~5 th Code
Tape and Ammunition Box		g Code XX	2 nd Code 0			
	1 st Code	g Code XX Packing size code		HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B) Tape and Reel	1 st Code A	g Code XX Packing size code N/A	0	HF or RoHS HF	1 st Code 0	2 nd ~5 th Code serial number
Tape and Ammunition Box (T/B) Tape and Reel (T/R) Bulk Packing	1 st Code A R	g Code XX Packing size code N/A 7"	0	HF or RoHS HF	1 st Code 0	2 nd ~5 th Code serial number
Tape and Ammunition Box (T/B) Tape and Reel (T/R) Bulk Packing (B/P) Tube Packing	1st Code A R B T	g Code XX Packing size code N/A 7" 13"	0 1 2	HF or RoHS HF	1 st Code 0	2 nd ~5 th Code serial number
Tape and Ammunition Box (T/B) Tape and Reel (T/R) Bulk Packing (B/P) Tube Packing (T/P) Tape and Reel (Right Oriented)	1st Code A R B T	g Code XX Packing size code N/A 7" 13" 26mm	0 1 2 X	HF or RoHS HF	1 st Code 0	2 nd ~5 th Code serial number

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