

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

BAT42WS BAT43WS BAT54WS

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE - 30 Volts CURRENT - 0.2 Ampere

FEATURES

- * For general purpose applications
- * Low turn-on voltage.
- * Fast switching time.
- * Protected by a PN junction guard ring against excessive voltage, such as electrostatic discharge(ESD).

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per

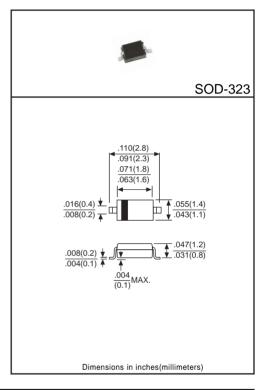
MIL-STD-202E, Method 208 guaranteed

* Mounting position: Any

* Weight: 0.008 grams Approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

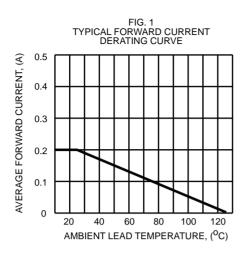


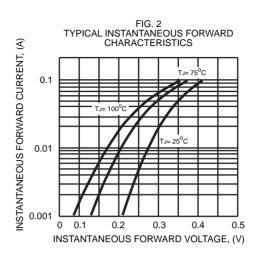
	SYMBOL	BAT42WS	BAT43WS	BAT54WS	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	30		Volts	
Maximum RMS Voltage	VRMS	21			Volts
Maximum DC Blocking Voltage	VDC	30			Volts
Maximum Average Forward Rectified Current at TA=25°C	lo	0.2			Amps
Peak Forward Surge Current	IFSM	4.0 @ t=10mS		0.6 @ t=1S	Amps
Maximum Instantaneous Forward Voltage	VF	1.0 @ IF=0.2A		1.0 @ IF=0.1A	Volts
	VF	0.4 @ IF=0.01A	0.33 @ IF=0.002A	0.32 @ IF=0.001A	Volts
Maximum DC Reverse Current @ VR=25V	l _R	0.5		2.0	μAmps
Typical Thermal Resistance (Note1)	RθJA	625			°C/W
Typical Junction Capacitance (Note 2)	CJ	10			pF
Storage Operating Temperature Range	TJ, TSTG	-55 to +125			°C

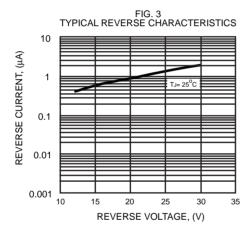
NOTES: 1. Terminals maintained at specified ambient temperature.
2. Measured at 1 MHz and applied reverse voltage of 1.0 volts.

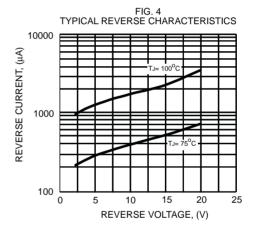
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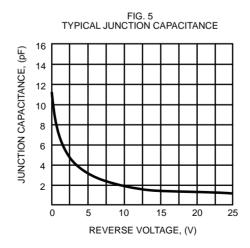
RATING AND CHARACTERISTIC CURVES (BAT42WS, BAT43WS, BAT54WS)











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