

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

BAT54W BAT54AW BAT54CW BAT54SW

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

FEATURES

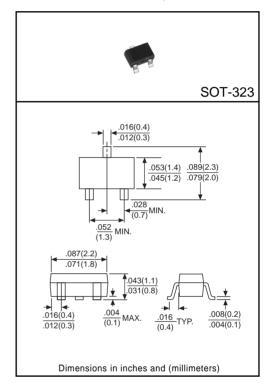
- * For general purpose applications
- * Low turn-on voltage.
- * Fast switching time.
- * Protected by a PN junction guard ring against excessive voltage, such as electrostatic discharge(ESD).

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%.

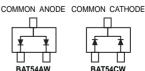


	SYMBOL	BAT54W	BAT54AW	BAT54CW	BAT54SW	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	30				Volts
Maximum RMS Voltage	VRMS	21				Volts
Maximum DC Blocking Voltage	VDC	30				Volts
Maximum Average Forward Rectified Current at TA=25°C	lo	0.2				Amps
Peak Forward Surge Current at t=1S	IFSM	0.6			Amps	
Maximum Instantaneous Forward Voltage	VF	1.0 @ IF=0.1A			Volts	
		0.32 @ IF=0.001A				
Maximum DC Reverse Current @ VR=25V	lr.	2.0			μAmps	
Typical Thermal Resistance (Note 1)	RθJA	500			°C/W	
Typical Junction Capacitance (Note 2)	Cı	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.



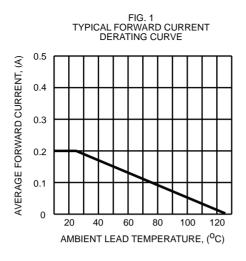






Pin Configuration (Top View)

RATING AND CHARACTERISTIC CURVES (BAT54(A/C/S)W)



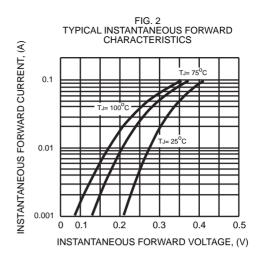


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

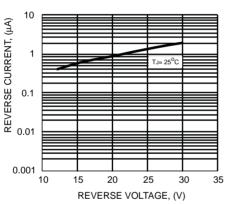
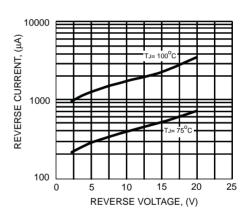
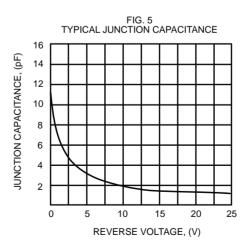


FIG. 4
TYPICAL REVERSE CHARACTERISTICS





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