



SURFACE MOUNT SCHOTTKY BARRIER

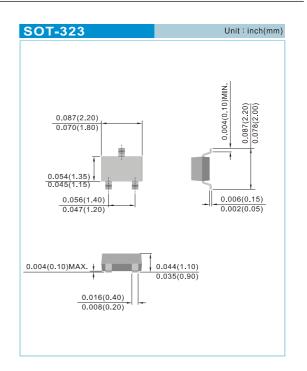
VOLTAGE 30 Volt CURRENT 0.2 Ampere

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)

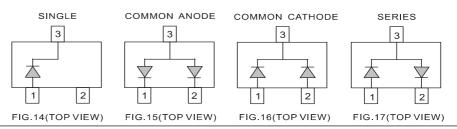
MECHANICAL DATA

- Case: SOT-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0002 ounces, 0.005 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER		SYMBOL	BAT54W	BAT54AW	BAT54CW	BAT54SW	UNITS
Peak Repetitive Reverse Voltage		VRRM	30			V	
Maximum Average Forward Current		lf(AV)	0.2			А	
Peak Forward Surge Current, 1s		IFSM	0.6			А	
Maximum Instantaneous Forward Voltage	IF=1mA IF=100mA	VF	0.32 0.6			V	
Power Dissipation		PD	200			mW	
Maximum DC Reverse Current at Rated DC Blocking Voltage@VR=25V		IR	2			μА	
Junction Capacitance : at V _R =1V		Сл	10			pF	
Thermal Resistance, Junction to Ambient		RθJA	635			°C/ W	
Operating Junction and Storage Temperature Range		Тл, Твтв	-55 to +125			°C	
Circuit Figure			Single	Common Anode	Common Cathode	Series	







TYPICAL CHARACTERISTIC CURVES

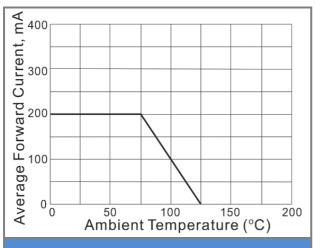


Fig.1 Forward Current Derating Curve

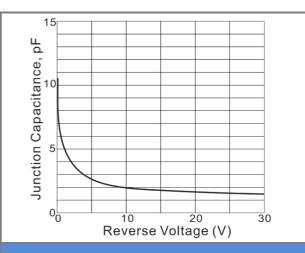


Fig.2 Typical Junction Capacitance

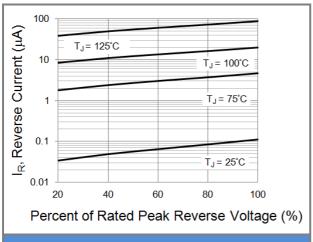


Fig.3 Typical Reverse Characteristics

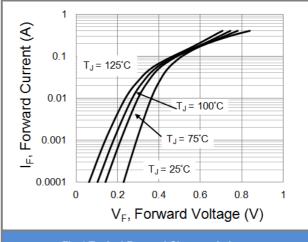


Fig.4 Typical Forward Characteristics

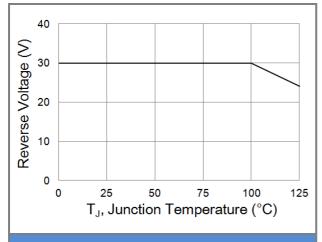


Fig.5 Operating Temperature Derating Curve

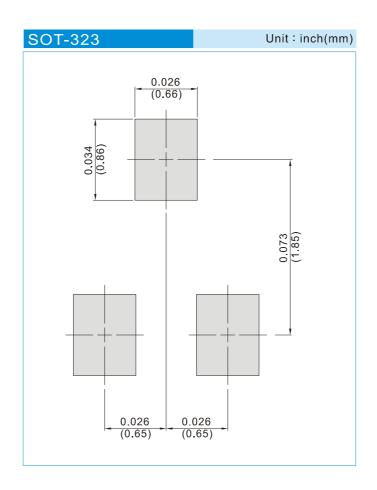




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAT54W_R1_00001	SOT-323	3K pcs / 7" reel	L4	Halogen free
BAT54W_R2_00001	SOT-323	12K pcs / 13" reel	L4	Halogen free
BAT54AW_R1_00001	SOT-323	3K pcs / 7" reel	L42	Halogen free
BAT54AW_R2_00001	SOT-323	12K pcs / 13" reel	L42	Halogen free
BAT54CW_R1_00001	SOT-323	3K pcs / 7" reel	L43	Halogen free
BAT54CW_R2_00001	SOT-323	12K pcs / 13" reel	L43	Halogen free
BAT54SW_R1_00001	SOT-323	3K pcs / 7" reel	L44	Halogen free
BAT54SW_R2_00001	SOT-323	12K pcs / 13" reel	L44	Halogen free

MOUNTING PAD LAYOUT







Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties
 of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation.
 Customers are responsible in comprehending the suitable use in particular applications.
 Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panjit:

BAT54SW_R1_00001 BAT54SW_R1_10001 BAT54SW_R2_00001 BAT54SW_R2_10001