# DC COMPONENTS CO., LTD.

#### **RECTIFIER SPECIALISTS**

## BAT54 BAT54A BAT54C BAT54S

### TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 30 Volts

#### FEATURES

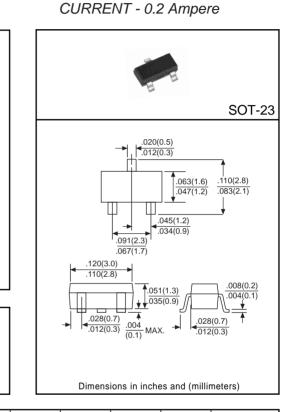
- \* For general purpose applications
- \* Low turn-on voltage.
- \* Fast switching time.
- \* Protected by a PN junction guard ring against excessive voltage, such as electrostatic discharge(ESD).

#### 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	BAT54	BAT54A	BAT54C	BAT54S	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	ю	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)	CJ	10			pF	
Storage Operating Temperature Range	TJ, TSTG	-55 to +125			٥C	

NOTES: 1. Terminals maintained at specified ambient temperature.

2. Measured at 1 MHz and applied reverse voltage of 1.0 volts.



COMMON ANODE COMMON CATHODE

BAT54A



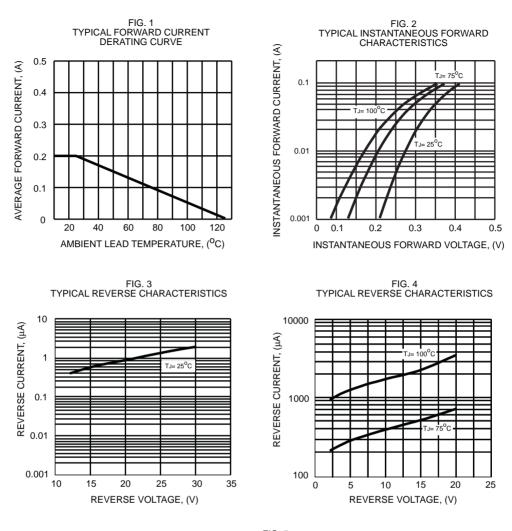


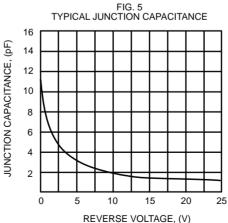
Pin Configuration (Top View)

BAT54C

REV-3,MAR,2017

#### **RATING AND CHARACTERISTIC CURVES (BAT54/A/C/S)**





#### Disclaimer

Any Customer or user of this document or products described herein in such applications shall assume all risks of such use and will agree to hold *DC COMPONENTS* are harmless against all damages.

*DC COMPONENTS* disclaims any and all liability arising out of the application or use of any product, including consequential or incidental damages. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

*DC COMPONENTS* reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein , and disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Unless otherwise in writing, *DC COMPONENTS* products are intended for use as general electronic components in standard applications (eg: Consumer electronic, Computer equipment, Office equipment, etc.), and not recommended for use in a high specific application where a failure or malfunction of the device could result in human injury or death (eg: Aerospace equipment, Submarine cables, Combustion equipment, Safety devices, Life support systems, etc.)

Customers using or selling *DC COMPONENTS* products not expressly indicated for use in such applications do so at their own risk. If customer intended to use *DC COMPONENTS* standard quality grade devices for applications not envisioned by *DC COMPONENTS*, please contact our sales representatives in advance.

