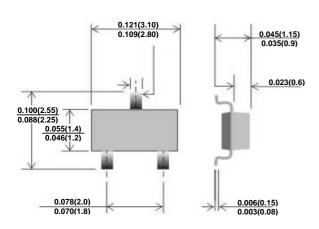


# **BAS54 SERIES**

# SURFACE MOUNT SCHOTTKY DIODES

Reverse Voltage - 30 Volts Forward Current - 0.2 Ampere

## <u>SOT-23</u>



#### • Fast switching speed

• Surface mount package Ideally suited for automatic insertion

FEATURES

- Electrically identical to standerd JEDEC
- High Conductance
- ◆ Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std..(Halogen Free)

## MECHANICAL DATA

Case: JEDEC SOT-23, Molded plastic Terminals: Solderable per MIL-STD-750 , Method 2026 Approx. Weight: 0.0003 ounces, 0.0084 grams

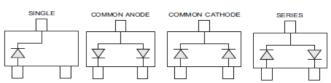
Dimensions in inches and (millimeters)

# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOLS	BAT54	BAT54A	BAT54C	BAT54S	UNITS
Marking Code		L4	L42	L43	L44	Volts
Forward Power Dissipation@T <sub>A</sub> = 25 °C	Pd	225				mW
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	30				Volts
Maximum Average Forward Current at $T_A = 75 \degree C$	Ι <sub>ο</sub>	200				mA
Repetitive Peak Forward Current( tp =8.3 ms , 50 %Duty Cycle)	I <sub>FRM</sub>	0.3				Amps
Peak Forward Surge Current, at t=1.0s (JEDEC method)	I <sub>FSM</sub>	0.6				Amps
Maximum Instantaneou Forward Voltage $at I_F = 1mA$ at I <sub>F</sub> =100mA		0.32 0.8				Volts
Maximum DC Reverse Curren at Rated DC Blocking Voltage @ $V_R$ =25V	I <sub>R</sub>	2.0				μΑ
Typical Junction Capacitance (Notes 1)	CJ	10.0				pF
Typical Thermal Resistance	$R_{ hetaJA}$	500				°C/W
Junction Temperature and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 ~ +150				ĉ
Circuit Figure		Single	Common Anode	Common Cathode	Series	

Note: 1. C<sub>J</sub> at Reverse Voltage = 1V, f=1MHz





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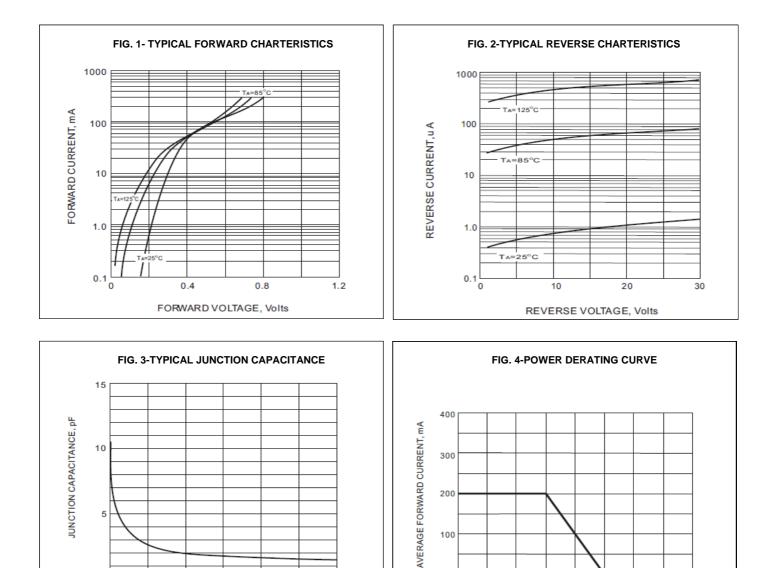
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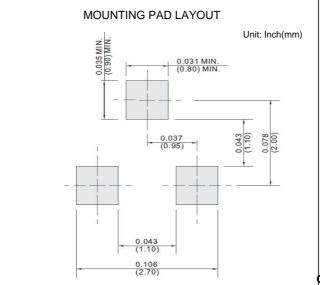
20

**REVERSE VOLTAGE**, Volts

30

## **RATINGS AND CHARACTERISTIC CURVES**





0

50

100

AMBIENT TEMPERATURE(°C)

150

200