SURFACE MOUNT SCHOTTKY BARRIER

30 Volt CURRENT 0.2 Ampere

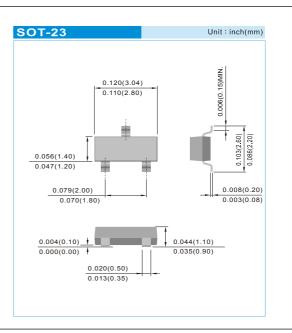
FEATURES

VOLTAGE

- · Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- · Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

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

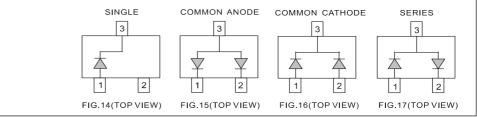


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	BAT54	BAT54A	BAT54C	BAT54S	Units
Forward Power Dissipation@TA=25°C	P _D	225			mW	
Peak Repetitive Reverse Voltage	V _{RRM}	30			V	
Maximum Average Forward Current at TA=75°C	I _o	0.2			A	
Repetitive Peak Forward Current (tp=8.3ms,50%Duty Cycle)	I _{FRM}	300			mA	
Peak Forward Surge Current, 1s	I _{fsm}	0.6			A	
Maximum Instantaneous Forward Voltage @ I _F =1mA @ I _F =100mA	V _F	0.32 0.6			v	
Typical Instantaneous Forward Voltage @ I _F =0.1mA	V _F	0.22			v	
Maximum DC Reverse Current at Rated DC Blocking Voltage@V _R =25V	I _R	2			μA	
Junction Capacitance at V _R =1V	C	10			pF	
Thermal Resistance, Junction to Ambient	$R_{_{ ext{ hetaJA}}}$	500			°C/ W	
Operating Junction and Storage Temperature Range	Т _, , Т _{sтg}	-55 to +125			°C	
Circuit Figure	-	Single	Common Anode	Common Cathode	Series	-

Note : 1. I_F =10mA through I_R =10mA to I_R =1mA, R_L =100 Ω .





TYPICAL CHARACTERISTIC CURVES

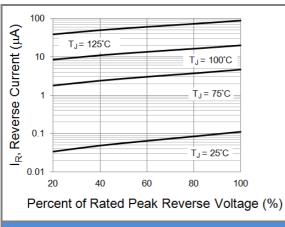
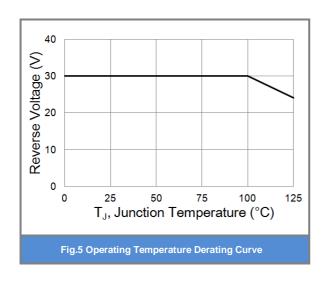
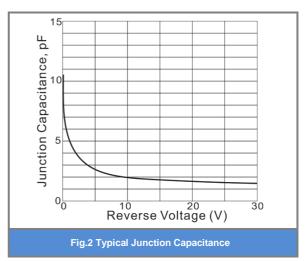
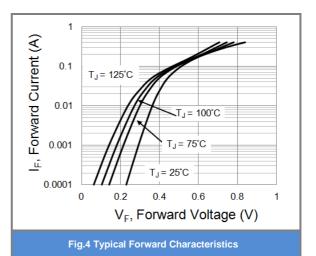


Fig.3 Typical Reverse Characteristics







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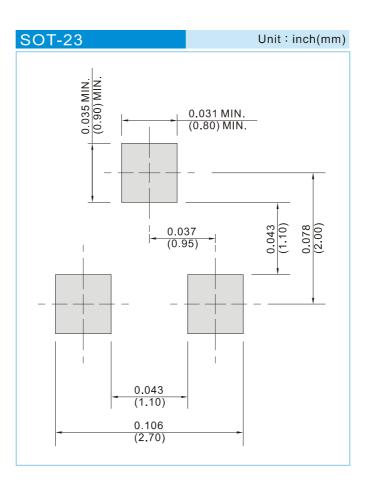


BAT54 SERIES

PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAT54_R1_00001	SOT-23	3K pcs / 7" reel	L4	Halogen free
BAT54_R2_00001	SOT-23	12K pcs / 13" reel	L4	Halogen free
BAT54A_R1_00001	SOT-23	3K pcs / 7" reel	L42	Halogen free
BAT54A_R2_00001	SOT-23	12K pcs / 13" reel	L42	Halogen free
BAT54C_R1_00001	SOT-23	3K pcs / 7" reel	L43	Halogen free
BAT54C_R2_00001	SOT-23	12K pcs / 13" reel	L43	Halogen free
BAT54S_R1_00001	SOT-23	3K pcs / 7" reel	L44	Halogen free
BAT54S_R2_00001	SOT-23	12K pcs / 13" reel	L44	Halogen free

MOUNTING PAD LAYOUT



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