

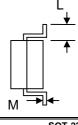
BAT54/A/C/S

SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and **ESD Protection**
- Designed for Surface Mount Application
- Plastic Material UL Recognition Flammability Classification 94V-O

TOP VIEW С



SOT-23				
Dim	Min	Max		
Α	0.37	0.51		
В	1.19	1.40		
С	2.10	2.50		
D	0.89	1.05		
E	0.45	0.61		
G	1.78	2.05		
Н	2.65	3.05		
J	0.013	0.15		
K	0.89	1.10		
L	0.45	0.61		
М	0.076	0.178		
All Dimensions in mm				

Mechanical Data

Case: SOT-23, Molded Plastic

Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: See Diagrams Below Weight: 0.008 grams (approx.)

Mounting Position: Any









BAT54 Marking: L4

BAT54A Marking: L42

BAT54C Marking: L43 BAT54S Marking: L44

Maximum Ratings and Electrical Characteristics, Single Diode @TA=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	30	V
Average Rectified Output Current	lo	100	mA
Forward Continuous Current (Note 1)	lF	200	mA
Repetitive Peak Forward Current (Note 1)	IFRM	300	mA
Forward Surge Current @ t _p <1.0s (Note 1)	IFSM	600	mA
Power Dissipation (Note 1)	Pd	200	mW
Typical Thermal Resistance, Junction to Ambient Air	$R_{ heta}$ JA	R θ JA 500	
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +125	°C

Note: 1. Device on fiberglass substrate.

Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C unless otherwise specified

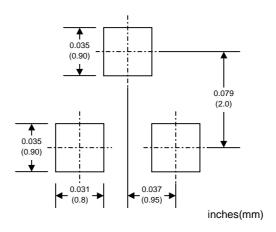
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage	V(BR)R	30	_	_	V	I _{RS} = 100μA
Forward Voltage	VF	-	_	240 320 400 500 1000	mV	tp <300 μ s, duty cycle <2% @ I _F = 0.1mA @ I _F = 1mA @ I _F = 10mA @ I _F = 30mA @ I _F = 100mA
Reverse Leakage Current	lR	_	_	2.0	μΑ	tp < 300 μ s, duty cycle <2% @ V _R = 25V
Junction Capacitance	Cj	_	_	10	pF	V _R = 1.0V, f = 1.0MHz
Reverse Recovery Time	trr	_	_	5.0	nS	I_F = 10mA through I_R = 10mA to I_R = 1.0mA, R_L = 100 Ω

ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity
BAT54-T1	SOT-23	3000/Tape & Reel
BAT54-T3	SOT-23	10000/Tape & Reel
BAT54A-T1	SOT-23	3000/Tape & Reel
BAT54A-T3	SOT-23	10000/Tape & Reel
BAT54C-T1	SOT-23	3000/Tape & Reel
BAT54C-T3	SOT-23	10000/Tape & Reel
BAT54S-T1	SOT-23	3000/Tape & Reel
BAT54S-T3	SOT-23	10000/Tape & Reel

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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We power your everyday.

Products listed in **bold** are WTE **Preferred** devices.

T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.