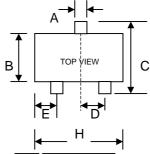


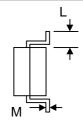
BAT54W / AW / CW / SW

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





K TO TO

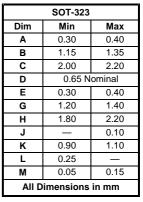
Mechanical Data

Case: SOT-323, Molded Plastic

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

Polarity: See Diagrams BelowWeight: 0.006 grams (approx.)

Mounting Position: Any











BAT54W Marking: L4

BAT54AW Marking: L42

BAT54CW Marking: L43 BAT54SW Marking: L44

Maximum Ratings and Electrical Characteristics, Single Diode @T_A=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
Forward Continuous Current (Note 1)	lF	200	mA
Repetitive Peak Forward Current (Note 1)	IFRM	300	mA
Forward Surge Current (Note 1) @ t < 1.0s	IFSM	600	mA
Power Dissipation (Note 1)	Pd	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ heta}JA$	625	K/W
Operating and Storage Temperature Range	Tj, Tstg	-55 to +125	°C

Note: 1. Devices are on fiberglass substrate and kept at ambient temperature.

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

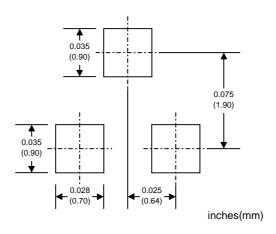
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage	V(BR)R	30	_		V	@ I _{RS} = 100μA
Forward Voltage	VF	-	_	240 320 400 500 1000	mV	$\begin{array}{l} t_{P} < 300 \mu s, \ duty \ cycle < 2\% \\ @ \ I_{F} = 0.1 mA \\ @ \ I_{F} = 1 mA \\ @ \ I_{F} = 10 mA \\ @ \ I_{F} = 30 mA \\ @ \ I_{F} = 100 mA \end{array}$
Reverse Leakage Current	IR	_	_	2.0	μΑ	$t_P < 300\mu s$, 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
BAT54W-T1	SOT-323	3000/Tape & Reel
BAT54W-T3	SOT-323	10000/Tape & Reel
BAT54AW-T1	SOT-323	3000/Tape & Reel
BAT54AW-T3	SOT-323	10000/Tape & Reel
BAT54CW-T1	SOT-323	3000/Tape & Reel
BAT54CW-T3	SOT-323	10000/Tape & Reel
BAT54SW-T1	SOT-323	3000/Tape & Reel
BAT54SW-T3	SOT-323	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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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.

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