

Green Products

BAT54W/AW/CW/SW SCHOTTKY BARRIER DIODE

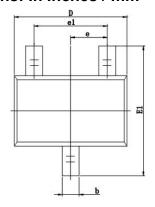
Features:

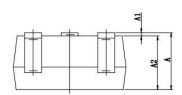
- Extremely Fast Switching Speed
- Low forward voltage

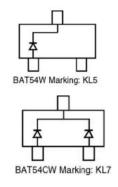
Mechanical Data:

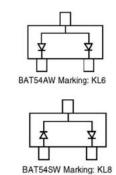
- Case: SOT-323, Molded plastic body
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: Polarity symbols marked on case

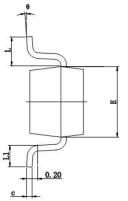
Mechanical Dimensions: In Inches / mm











Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.200	0.400	800.0	0.016	
С	0.080	0.150	0.003	0.006	
D	2.000	2.200	0.079	0.087	
Е	1.150	1.350	0.045	0.053	
E1	2.150	2.450	0.085	0.096	
е	0.650 TYP		0.026 TYP		
e1	1.200	1.400	0.047	0.055	
L	0.525 REF		0.021 REF		
L1	0.260	0.460	0.010	0.018	
θ	0°	8°	0°	8°	

SOT-323

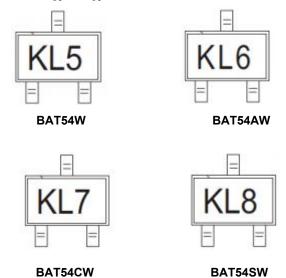
- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •

= Part Name



Technical Data Data Sheet N0027, Rev. B Green Products

Marking Diagram:



Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
BAT54W/AW/CW/SW	SOT-323(Pb-Free)	3000pcs / reel	

KL5/KL6/KL7/KL8

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.



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

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

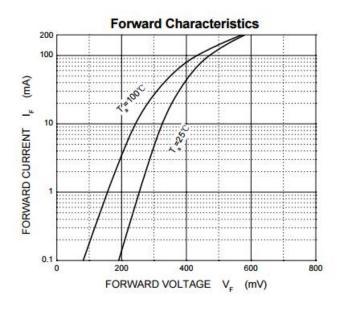
Characteristic	Symbol	Limit	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	V
Forward Continuous Current	I _{FM}	200	mA
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	600	mA
Power Dissipation	Pd	200	mW
Typical Thermal Resistance Junction to Ambient	R _{0JA}	500	°C/W
Junction Temperature Range	TJ	125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

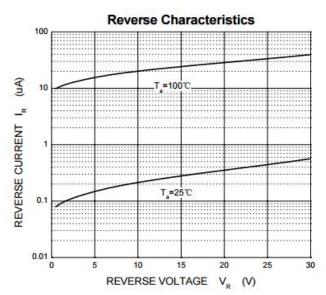
Characteristic	Symbol	Max	Unit	Test Condition
Forward Voltage	V _F	0.24 0.32 0.40 0.50 1.0	V	I _F =0.1mA I _F =1mA I _F =10mA I _F =30mA I _F =100mA
Reverse Leakage Current	I _R	2	μA	V _R =25V
Diode capacitance	Ст	10	pF	V _R =1V,f=1.0MHz
Reverse recovery time	t _{rr}	5	ns	$I_F = I_R = 10 \text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$

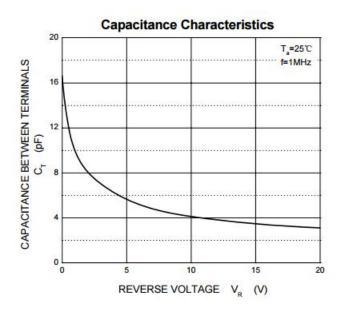


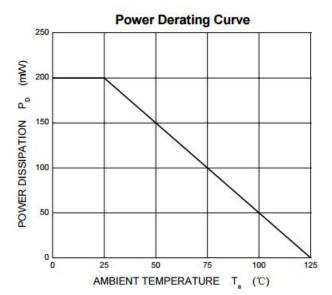
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Typical Characteristics









[•] China - Germany - Korea - Singapore - United States •



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