

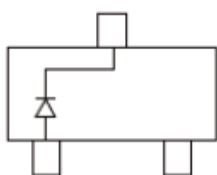
Dimensions in inches and (millimeters)

SWITCHING DIODE

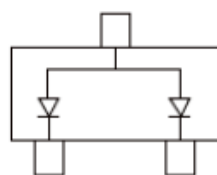
FEATURES

- Low Forward Voltage Drop
- Fast Switching
- Pb-Free package is available
- RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"
- Moisture Sensitivity Level 1

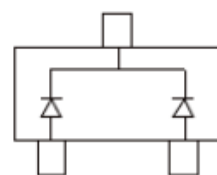
MARKING:



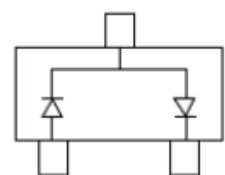
BAT54T Marking: L1



BAT54AT Marking: L2



BAT54CT Marking: L3



BAT54ST Marking: L4

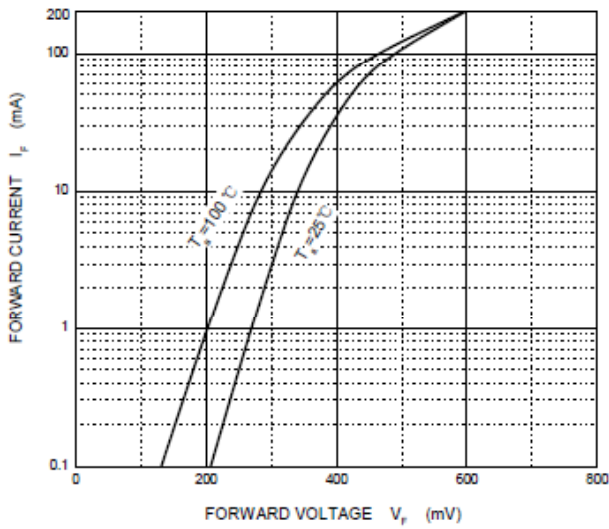
Plastic-Encapsulate Diodes

Maximum Ratings @ $T_a=25^\circ\text{C}$			
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	30	V
DC Blocking Voltage	V_R		
Average Rectified Output Current	I_O	200	mA
Power Dissipation	P_d	150	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Operating/ Storage Temperature Range	T_{STG}	-55~+150	$^\circ\text{C}$

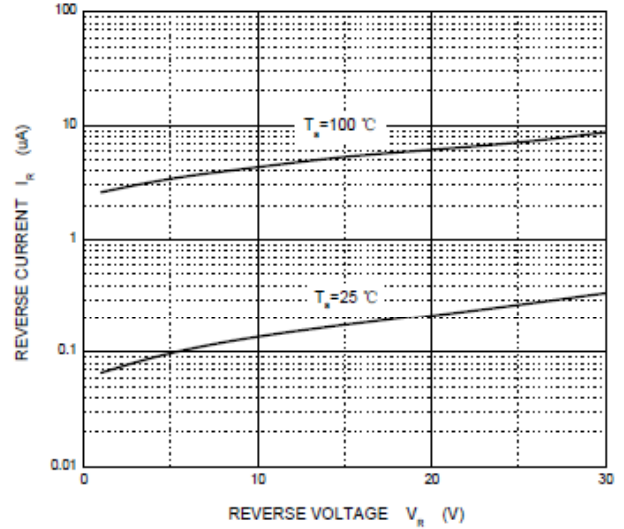
Electrical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise specified)					
Parameter	Symbol	Test conditions	Min.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	30	—	V
Reverse Voltage Leakage Current	I_R	$V_R=25\text{V}$	—	2	μA
Forward Voltage	V_F	$I_F=0.1\text{mA}$	—	240	mV
		$I_F=1\text{mA}$	—	320	
		$I_F=10\text{mA}$	—	400	
		$I_F=30\text{mA}$	—	500	
		$I_F=100\text{mA}$	—	1000	
Total capacitance	C_T	$V_R=1\text{V}, f=1\text{MHz}$	—	10	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA},$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$	—	5	ns

Typical Characteristics

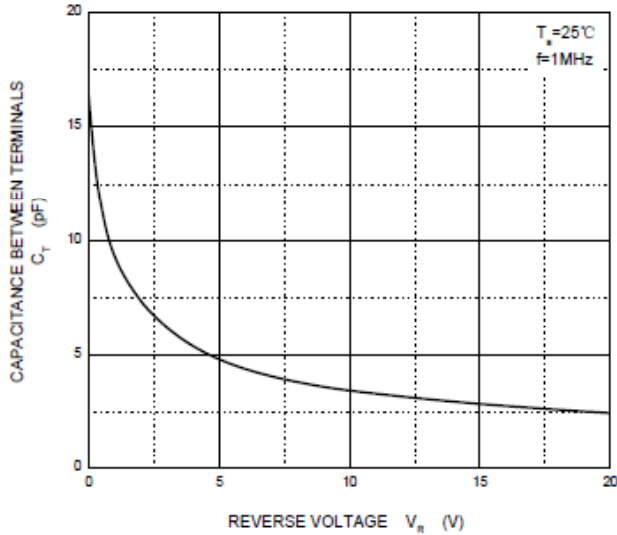
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

