SOD-323 Schottky Barrier Diode

Internal Configuration& Device Marking

Type	BAT42WS	BAT43WS
Pin		
Mark	S7	S8

Absolute Maximum Ratings

Characteristic	Symbol	Rat	Unit
Peak Reverse Voltage	V_{RRM}	30	V
Reverse Work Voltage	V_{RWM}		
DC Reverse Voltage	V_R		
Forward Work Current	$I_F(I_O)$	200	mA
Peak Forward Current	I_{FM}	500	mA
Power dissipation	P_D(Ta=25℃)	200	mW
Thermal Resistance J-A	$R_{\theta JA}$	625	℃/W
Junction and Storage Temperature	T_J,T_{stg}	-55to+150℃	

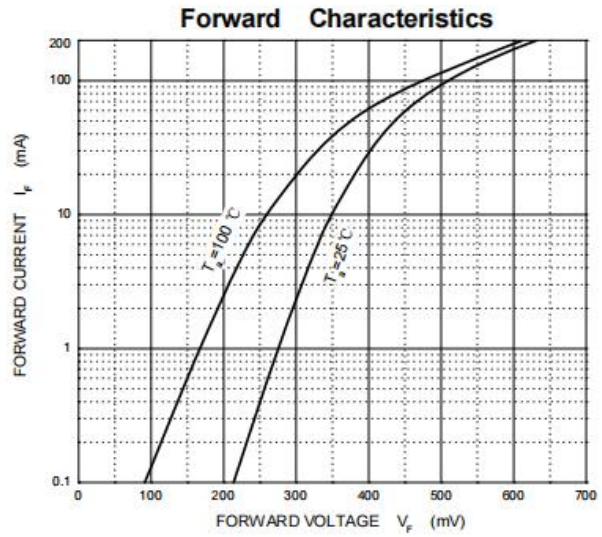
Electrical Characteristics

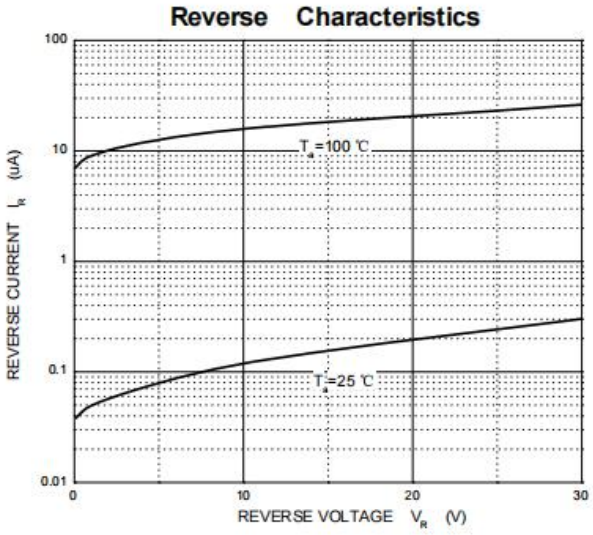
(T_A=25℃ unless otherwise noted)

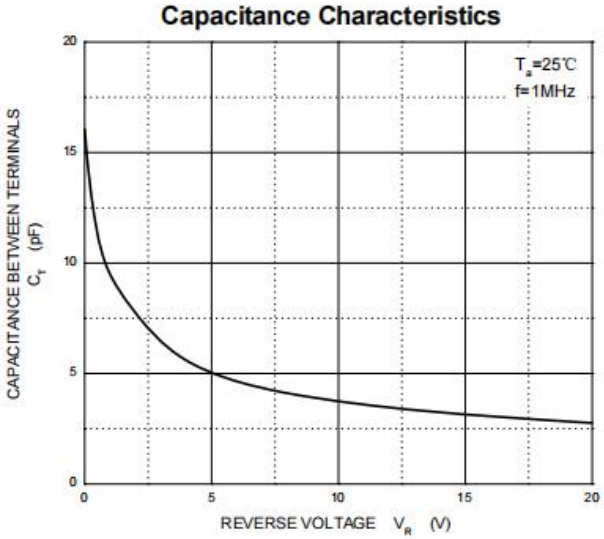
Characteristic	Symbol	Min	Max	Unit
Reverse Breakdown Voltage (I_R=10μA)	$V_{(BR)}$	30	—	V
Reverse Leakage Current (V_R=25V)	I_R	—	0.5	μA
Forward Voltage(BAT43WS I_F=2mA) (BAT42WS I_F=10mA) (BAT43WS I_F=15mA) (BAT42WS I_F=50mA) (BAT42WS/BAT43WS I_F=200mA)	V_F	0.26	0.33 0.4 0.45 0.65 1	V
Diode Capacitance (V_R=1V, f=1MHz)	C_D	—	10	pF
Reverse Recovery Time	T_{rr}	—	5	nS

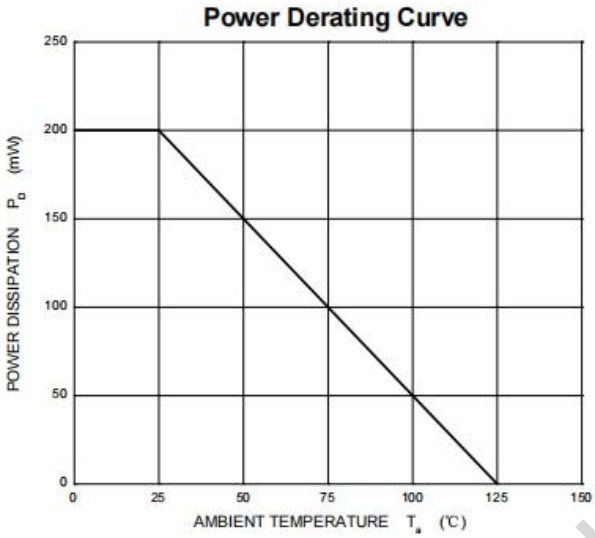
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Typical Characteristic Curve



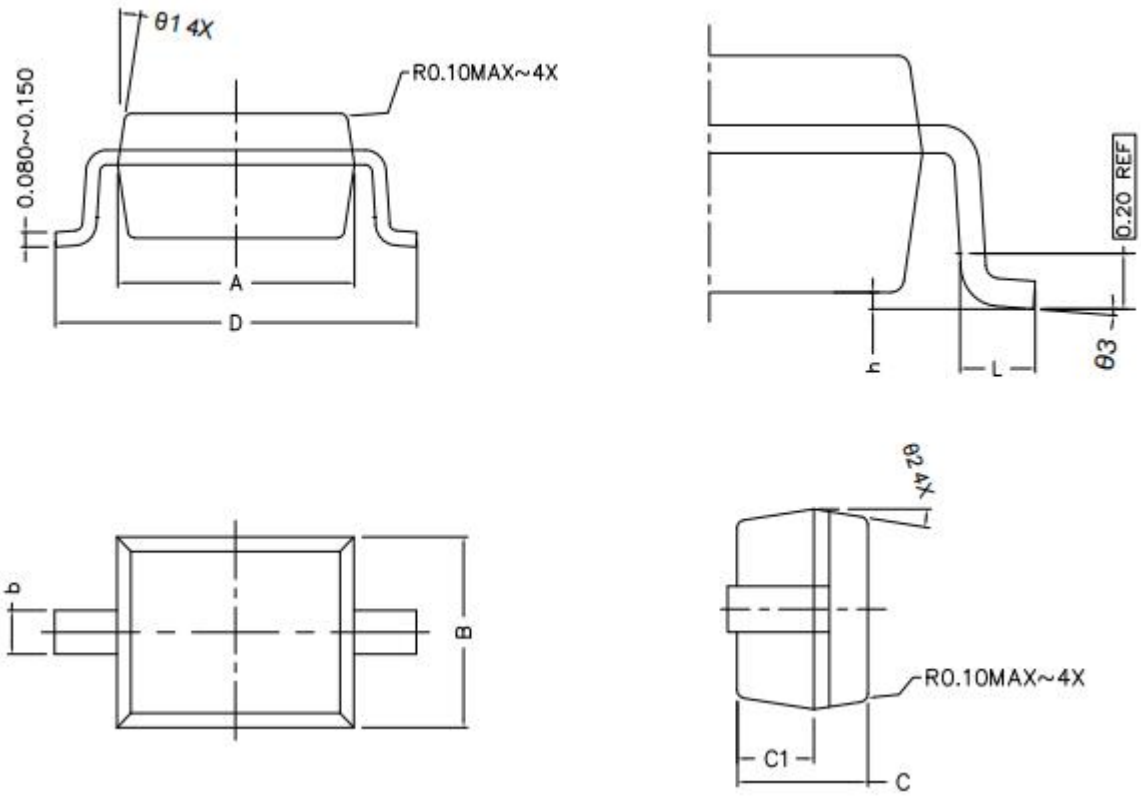






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Dimension



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.600	1.800	0.063	0.071
B	1.200	1.400	0.047	0.055
C	0.750	0.950	0.030	0.037
C1	0.450	0.550	0.018	0.022
D	2.450	2.800	0.096	0.110
L	0.200	0.400	0.008	0.016
b	0.200	0.400	0.008	0.016
h	0.020	0.120	0.001	0.005
Θ3	0°	8°	0°	8°

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