



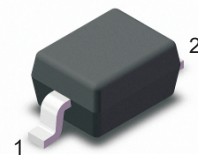
BAT54WS

Schottky Barrier Diode

Features

- High surge capability
- High current capability
- For Low forward voltage
- Low power loss, high efficiency

SOD-323



1.Cathode —  2.Anode

Marking Code : L4

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	BAT54WS	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Maximum Average Forward Current at $T_A=25\text{ }^{\circ}\text{C}$	I_O	0.2	A
Maximum DC Reverse Current at Rated DC Blocking Voltage at $V_R=25\text{ V}$	I_R	2.0	μA
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	13	A
Maximum Instantaneous Forward Voltage at $I_F=0.001\text{ A}$ at $I_F=0.1\text{ A}$	V_F	0.32 1.0	V
Typical Junction Capacitance at $V_R=0\text{ V}$, $f=1\text{ MHz}$	C_j	60	pF
Typical Thermal Resistance ^{Note1}	$R_{\theta JA}$	435	$^{\circ}\text{C/W}$
Junction Temperature	T_J	125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +125	$^{\circ}\text{C}$

Note:

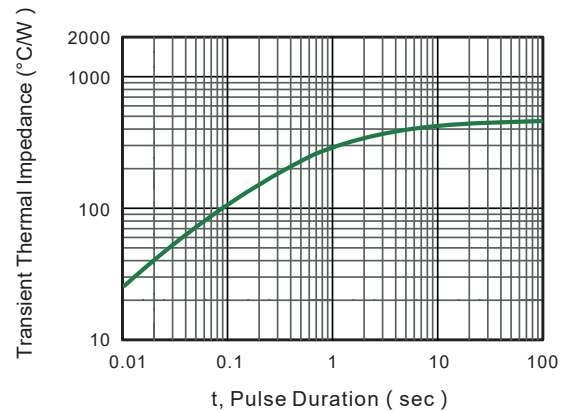
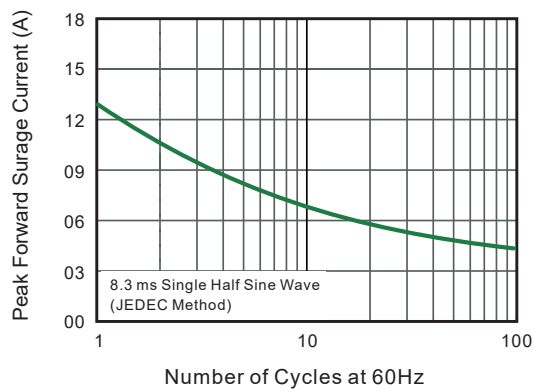
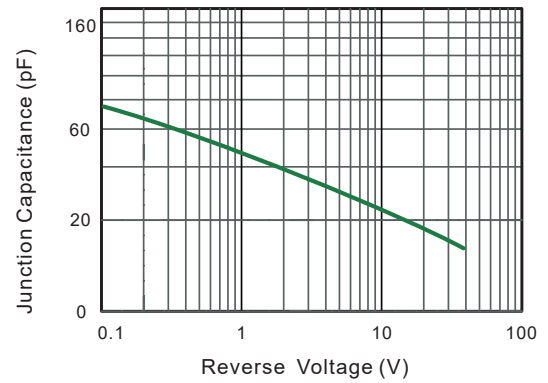
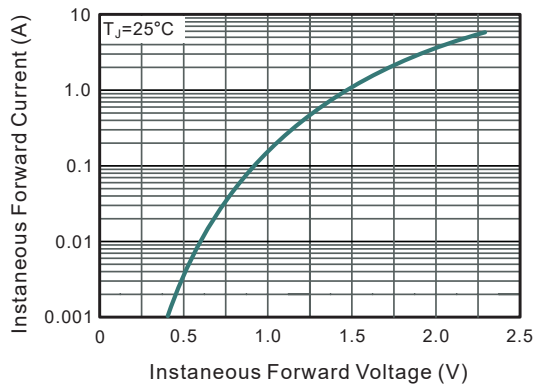
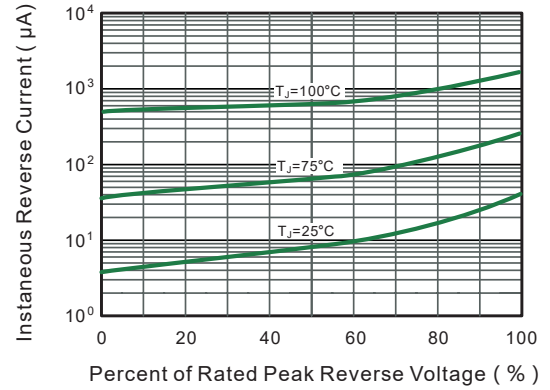
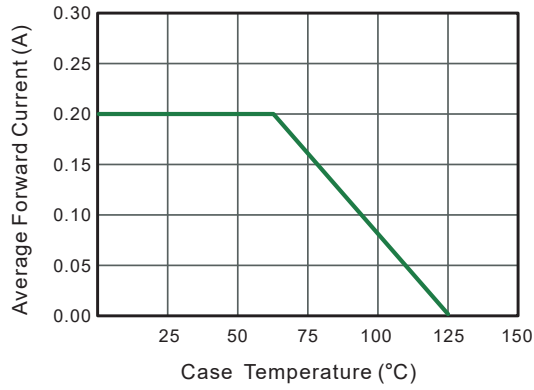
1. P.C.B. mounted with 5*5mm copper pad areas.



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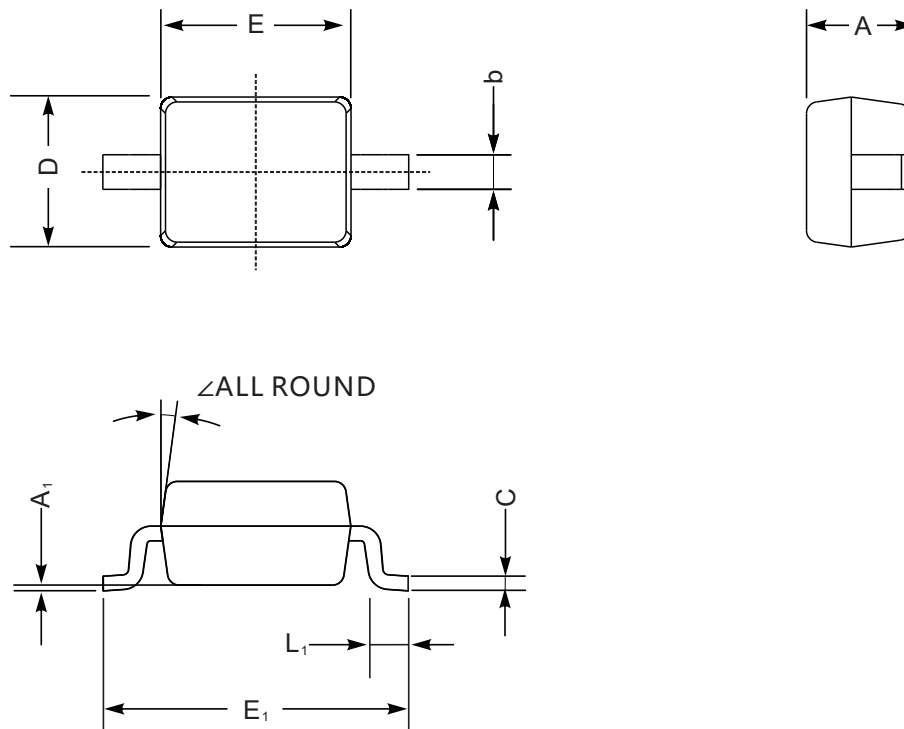
Typical Characteristic Curves



Package Outline

SOD-323

Dimensions in mm



UNIT		A	C	D	E	E ₁	b	L ₁	A ₁	∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	63	100	9.8	7.9	—	