

#### **Features**

Low Forward Votage Drop
Fast Switching Time
Surface Mount Package Ideally Suited for Automatic Insertion



# **Package Marking and Ordering Information**

Product ID	roduct ID Pack		Qty(PCS)
BAT43WS-HE3-08	SOD-323	S8	3000





### Maximum Ratings (Ta=25°C unless otherwise noted)

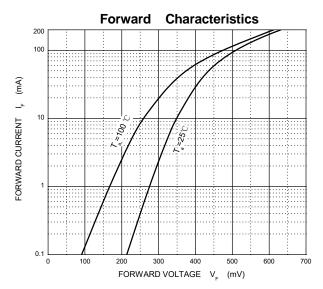
Parameter	Symbol	Limit	Unit	
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$			
Working Peak Reverse Voltage	$V_{RWM}$	30	V	
DC Blocking Voltage	$V_R$			
RMS Reverse Voltage	$V_{R(RMS)}$	21	V	
Forward Continuous Current	I <sub>FM</sub>	200	mA	
Repetitive Peak Forward Current @t<1.0s	I <sub>FRM</sub>	500	mA	
Non-repetitive Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	4.0	Α	
Power Dissipation	PD	200	mW	
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W	
Operating Junction Temperature Range	TJ	-40 ~ +125	°C	
Storage Temperature Range	T <sub>STG</sub>	-55 ~ +150	$^{\circ}$	

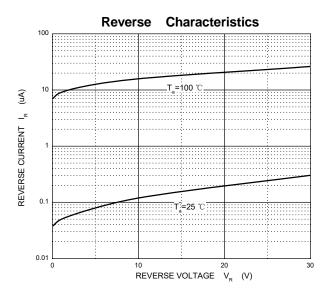
## Electrical Characteristics (Ta=25°C unless otherwise specified)

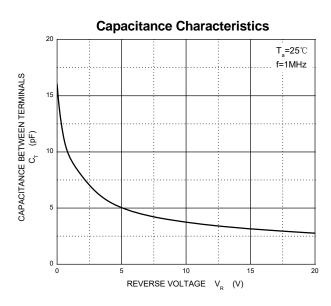
Parameter	Symbol	Min	Max	Unit	Conditions
Reverse <b>b</b> reakdown <b>v</b> oltage	V <sub>(BR)</sub>	30		V	I <sub>R</sub> =10μA
Forward voltage	V <sub>F</sub>	0.26	0.33	V	I <sub>F</sub> =2mA
Toward Toward	V <sub>F</sub>		0.45	V	I <sub>F</sub> =15mA
Reverse current	I <sub>R</sub>		0.5	μΑ	V <sub>R</sub> =25V
Capacitance between terminals	Ст		10	pF	V <sub>R</sub> =1.0V,f=1.0MHz
Daverse receivery time	t <sub>rr</sub>		5	ns	I <sub>F</sub> =I <sub>R</sub> =10mA
Reverse recovery time					Irr=0.1 $XI_R$ , $R_L$ =100 $\Omega$

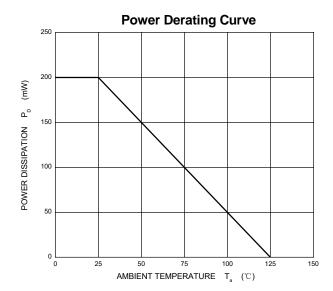


### **Typical Characteristics**



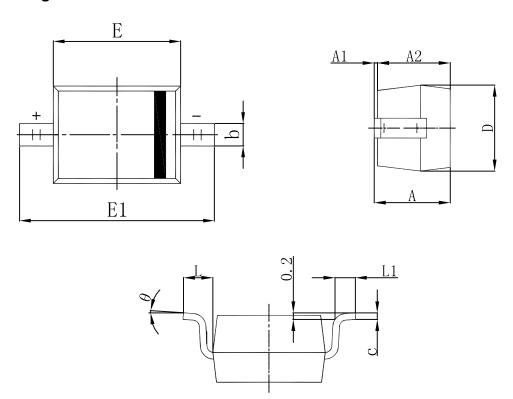








# **SOD-323 Package Outline Dimensions**



Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α		1.100		0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.800	1.000	0.031	0.039	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.500	2.750	0.098	0.108	
L	0.475	REF	0.019 REF		
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	



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