MSKSEMI















ESD

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Broduct data sheet



SOD-323



MARKING: 43



FEATURES

- Low Turn-on Voltage
- Designed for Surface Mount Application
- PN Junction Guard for Transient and ESD Protection
- Fast Switching
- Plastic Material –UL Recognition Flammability Classification 94V-O

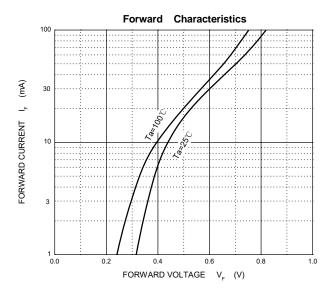
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

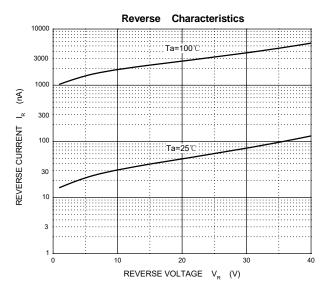
Parameter	Symbo	Limit	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	40	V
DC Blocking Voltage	V_R		
Forward Continuous Current	I _F	200	mA
Non-repetitive Peak Forward Surge Current@t=8.3ms	I _{FSM}	600	mA
Power Dissipation	Pd	200	mW
Thermal Resistance Junction to Ambient	R _{0JA}	500	°C/W
Operating Junction Temperature Range	TJ	-40 ~ +125	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	℃

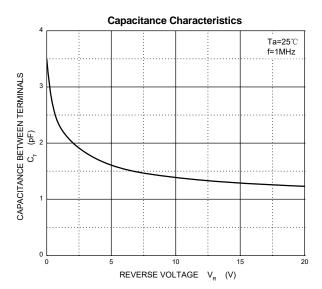
Electrical Ratings @Ta=25℃

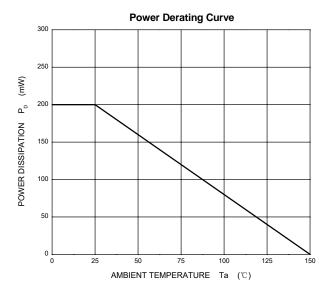
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Reverse breakdown voltage	V _(BR)	40			V	I _R =10μA
	V _{F1}			0.38	V	I _F =1mA
Forward voltage	V _{F2}			0.5	V	I _F =10mA
	V _{F3}			1	V	I _F =40mA
Reverse current	I _R		20	200	nA	V _R =30V
Capacitance between terminals	Ст		4	5	pF	V _R =0V,f=1MHz
Reverse recovery time	t _{rr}			5	ns	$I_F=I_R=10$ mA $Irr=0.1$ X I_R , $R_L=100$ Ω





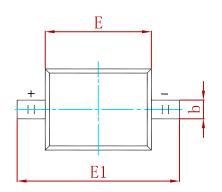


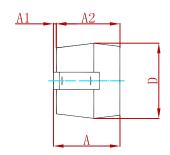


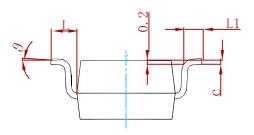




PACKAGE MECHANICAL DATA

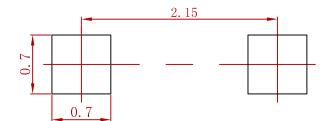






Cumbal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α		1.000		0.039	
A 1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
L	0.475	REF.	0.019	REF.	
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	

Suggested Pad Layout



Note:

- 1. Controlling dimension: in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
BAS40WS	SOD-323	3000



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