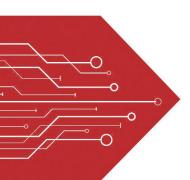
## MSKSEMI















**ESD** 

TVS

TSS

MOV

**GDT** 

**PLED** 

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#### **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

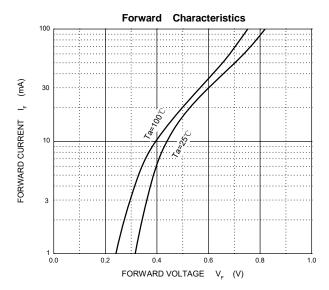
## Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

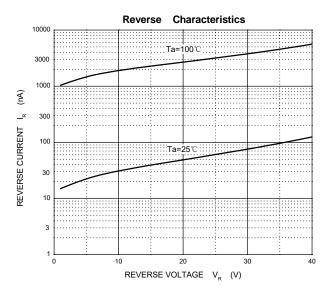
Parameter	Symbo	Limit	Unit
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$		
Working Peak Reverse Voltage	$V_{RWM}$	40	V
DC Blocking Voltage	$V_R$		
Forward Continuous Current	I <sub>F</sub>	200	mA
Non-repetitive Peak Forward Surge Current@t=8.3ms	I <sub>FSM</sub>	600	mA
Power Dissipation	Pd	200	mW
Thermal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

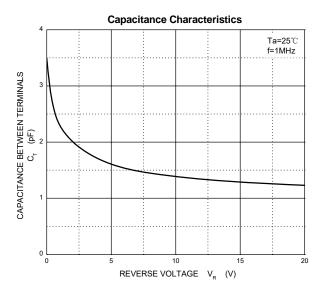
#### Electrical Ratings @Ta=25℃

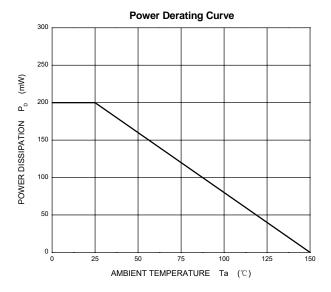
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Reverse breakdown voltage	V <sub>(BR)</sub>	40			V	I <sub>R</sub> =10μA
	V <sub>F1</sub>			0.38	V	I <sub>F</sub> =1mA
Forward voltage	V <sub>F2</sub>			0.5	V	I <sub>F</sub> =10mA
	V <sub>F3</sub>			1	V	I <sub>F</sub> =40mA
Reverse current	I <sub>R</sub>		20	200	nA	V <sub>R</sub> =30V
Capacitance between terminals	Ст		4	5	pF	V <sub>R</sub> =0V,f=1MHz
Reverse recovery time	t <sub>rr</sub>			5	ns	$I_F=I_R=10\text{mA}$ $Irr=0.1XI_R,R_L=100\Omega$





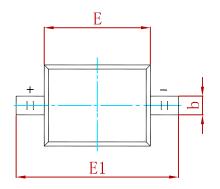


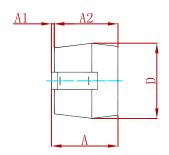


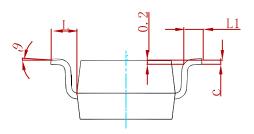




## PACKAGE MECHANICAL DATA

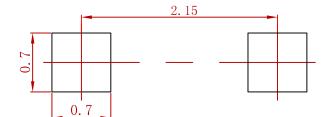






Cumbal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α		1.000		0.039	
A 1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
L,	0.475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