# MSKSEMI 美森科













ESD

TVS

TSS

MOV

GDT

PLED

B16WS

## **Product specification**





## FEATURES

- Guard ring protection.
- Low forward voltage drop.
- For use in low voltage, high frequency inverters .
- High surge current capability.

## **APPLICATIONS**

- Low voltage rectification
- Reverse polarity protection
- Low power consumption applications

#### **Reference News**

PACKAGE OUTLINE	Circuit	Marking
		SM
SOD-323		



Symbol	Parameter	Limit	Unit
VRRM	Maximum Recurrent Peak Reverse Voltage	60	V
VRMS	Maximum RMS Voltage	42	V
VDC	Maximum DC Blocking Voltage	60	V
IF	Continuous ForwardCurrent	1	А
IFSM	Non-repetitive Peak Forward Surge Current@8.3mS	10	А
Ptot	Total Power Dissipation	250	W
ROJA	Thermal Resistance From Junction To Ambient	400	°C <b>/W</b>
TJ	Operation Junction Temperature Range	-40~+ 125	°C
TSTG	Storage Temperature Range	-55~+ 150	°C

## MAXIMUM RATING (Ta=25°C unless otherwise noted)

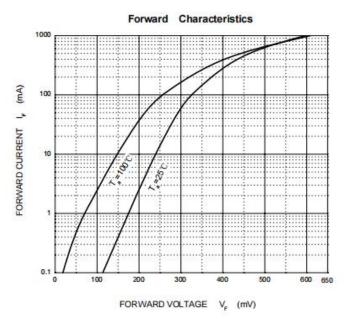
These ratings are limiting values above which the serviceability of the diode may be impaired.

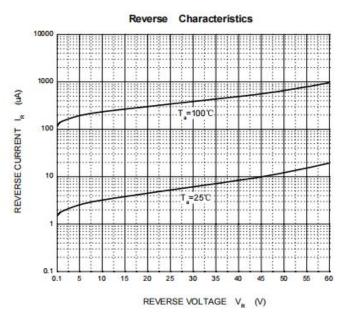
## ELECTRICAL CHARACTERISTICS (Ta=25 $\mathcal{C}$ )

Symbol	Parameter	Test conditions	Min	Тур	Max	Unit
VF	Forward voltage(1)	IF=1A			0.7	V
IR	Reverse voltage leakage current	VR=60V			0.1	A
Ctot	Total Capacitance	VR=4V, f=1.0MHz			120	F

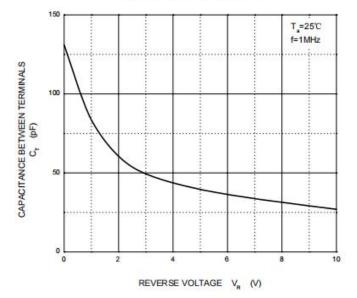


## **ELECTRICAL CHARACTERISTICS CURVE**

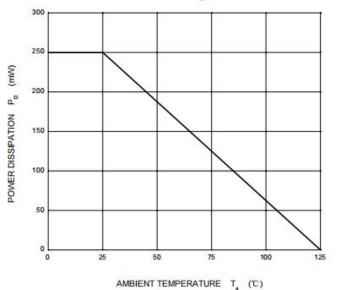




**Capacitance Characteristics** 

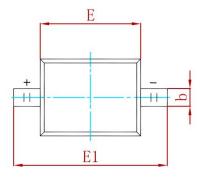


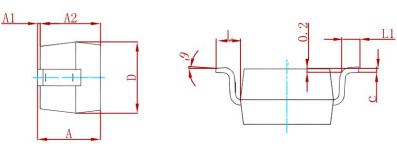
Power Derating Curve





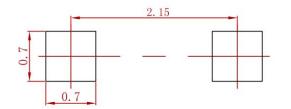
**MSKSEMI** 





Symbol	<b>Dimensions In Millimeters</b>		Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
А		1.000		0.039	
A1	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.	
e	0°	8?	0.	8 <sup>:</sup>	

## **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
B16WS	SOD-323	3000

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