MSKSEMI 美森科













FSD

TV

TSS

MOV

GDT

PIFD

B0530WS

Product specification





Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- High Conductance
- Also Available in Lead Free Version

Reference News

PACKAGE OUTLINE	Pin Configuration	Marking
+	○ ►	SE
SOD-323		

Maximum Ratings @Ta=25℃

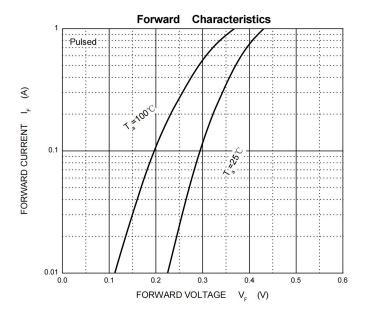
Parameter	Symbo	Value	Unit
Peak repetitive peak reverse voltage	V_{RRM}		
Working peak reverse voltage	V _{RWM}	30	V
DC blocking voltage	VR		
RMS reverse voltage reverse voltage (DC)	V _{R(RMS)}	21	V
Average rectified output current	lo	0.5	Α
Non-repetitive Peak Forward Surge Current @t=8.3ms	IFSM	5.5	А
Power dissipation	PD	200	mW
Thermal resistance junction to ambient	Reja	500	°C /W
Operating Junction Temperature Range	Tj	-40 ~ +125	℃
Storage Temperature Range	T _{STG}	-55 ~ + 150	℃
Voltage rate of change	dv/dt	1000	V/ µs

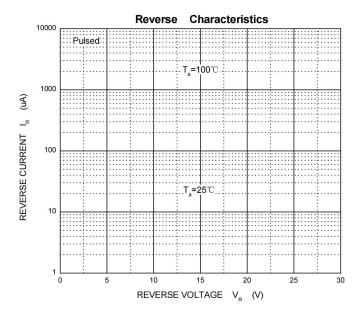
Electrical Characteristics @Ta=25 $^{\circ}$ C

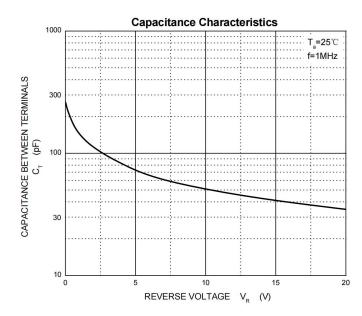
	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I _R =500uA	30			V
		V _R =15V			80	
Reverse current	l _R	V _R =20V			100	uA
		V _R =30V			500	
		I _F =0.1A			0.36	
Forward voltage	VF	I _F =0.5A			0.45	V
Capacitance between terminals	Ст	V _R =1,f=1MHz		170		pF

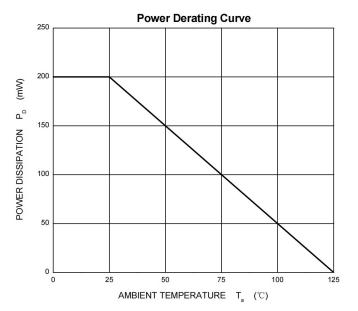


Typical Characteristics



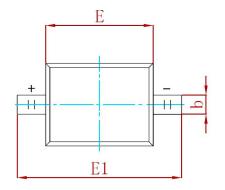


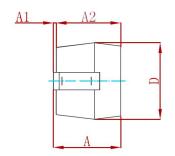


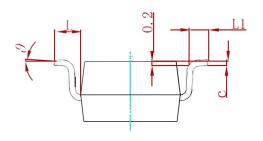




PACKAGE MECHANICAL DATA

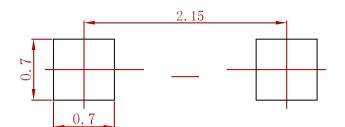






Symbol	Dimensions In	Millimeters	Dimensions	In Inches
Symbol	Min	Max	Min.	Max
A		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
С	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
Е	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L	0.475	REF	0.019	REF
L1	0.250	0.400	0.010	0.016
θ	0 °	8°	0.0	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
B0530WS	SOD-323	3000



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