MSKSEMI 美森科







TIVO



TSS



MOV



GDT



DIFL

B0520W-MS

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
	○ ►	SD
SOD-123		

Maximum Ratings @Ta=25℃

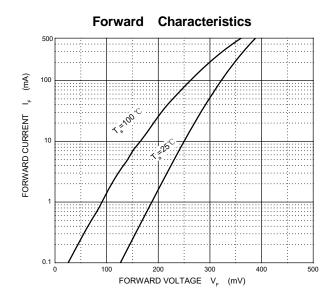
Parameter	Symbo	Value	Unit
Peak repetitive peak reverse voltage	V _{RRM}		
Working peak reverse voltage	V _{RWM}	20	V
DC blocking voltage	VR		
RMS reverse voltage reverse voltage (DC)	V _{R(RMS)}	14	V
Average rectified output current	lo	0.5	Α
Non-repetitive Peak Forward Surge Current @t=8.3ms	IFSM	5.5	А
Power dissipation	P _D	500	mW
Thermal resistance junction to ambient	Reja	200	°C/W
Operating Junction Temperature Range	Tj	-40 ~ +125	℃
Storage Temperature Range	TstG	-55 ~ +150	°C
Voltage rate of change	dv/dt	1000	V/µs

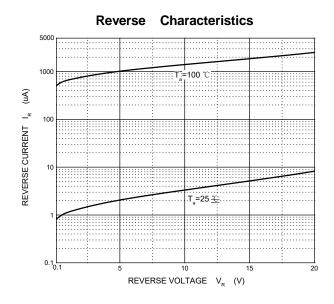
Electrical Characteristics @Ta=25℃

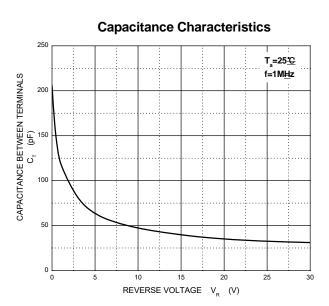
	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R =250uA	20			V
Devices a summent		V _R =10V			75	uA
Reverse current	I _R	V _R =20V			250	UA
		l=0.1A			0.33	
Forward voltage	VF	l⊧=0.5A			0.45	V
Capacitance between terminals	Ст	V _R =1,f=1MHz		170		pF

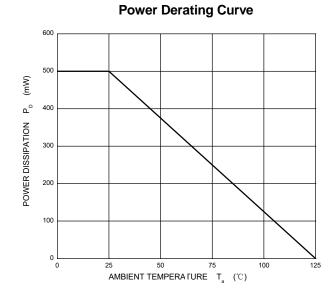


Typical Characteristics



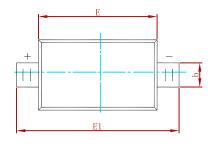


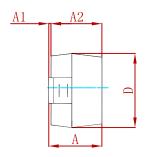


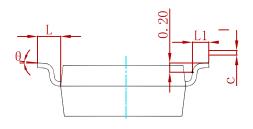




PACKAGE MECHANICAL DATA

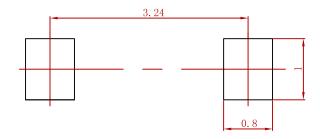






Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.450	0.650	0.018	0.026	
С	0.080	0.150	0.003	0.006	
D	1.500	1.700	0.059	0.067	
E	2.600	2.800	0.102	0.110	
E1	3.550	3.850	0.140	0.152	
L	0.500	REF	0.020	REF	
L1	0.250	0.450	0.010	0.018	
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.

REELSPECIFICATION

P/N	PKG	QTY
B0520W-MS	SOD-123	3000



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