MSKSEMI 美森科







TVC



TSS



MOV



GDT



DIEL

MBRS3100T3G(MS)

Product specification





FEATURES

- Small Compact Surface Mountable Package
- Highly Stable Oxide Passivated Junction
- Excellent Ability to Withstand Reverse Avalanche Energy Transients
- Guardring for Stress Protection

MECHANICALDATA

• Case : SMCMoldedplastic

Epoxy: UL94V-O rate flameretardantLead: LeadFormed forSurfaceMount

Polarity : Colorbanddenotescathodeend

Mountingposition : Any

Weight : 0.21 gram

Reference News

Outline	Marking	
	MBRS 3100	
SMC		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Reverse Voltage	V _{RRM}	100	V
Maximum Working Peak Reverse Voltage	V _{RWM}	100	V
Maximum DC Blocking Voltage	V _{DC}	100	V
Maximum Average Rectified Forward Current @ T _L = 100 ℃	I _{F(AV)}	3.0	Α
Maximum Non-repetitive Peak Surge Current (Surge applied at rated load conditions half wave, single phase ,60 Hz)	I _{FSM}	130	А
Maximum Instantaneous Forward Voltage (Note 1) (I _F = 3.0 A , T _J = 25°C)	VF	0.79	V
Maximum Instantaneous Reverse Current (Note1) (V _R = V _{RRM} , T _J = 25°C)	I _R	0.05	mA
$(V_R = V_{RRM}, T_J = 125^{\circ}C)$	I _{R(H)}	5.0	
Thermal Resistance Junction to Lead	Rejl	11	°C/W
Operating Junction Temperature	TJ	- 65 to +150	C

Note: (1) Pulse Test : Pulse Width = $300\mu s$ Duty Cycle $\leq 2\%$



RATING AND CHARACTERISTIC CURVES

FIG.1 - CURRENT DERATING (LEAD)

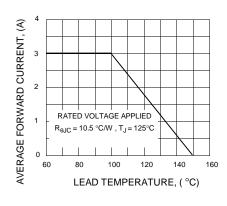


FIG.2 - POWER DISSIPATION

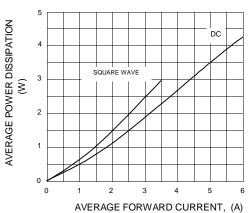


FIG.3 - TYPICAL FORWARD VOLTAGE

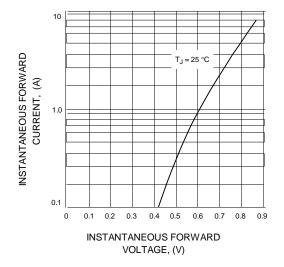
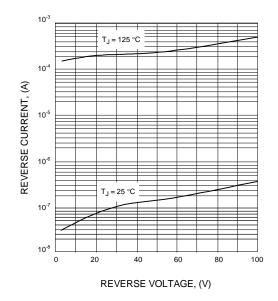
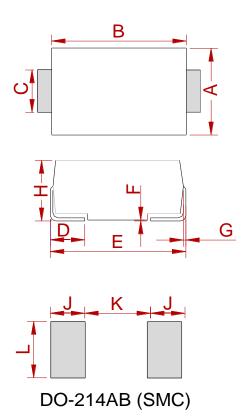


FIG.4 - TYPICAL REVERSE CURRENT





PACKAGE MECHANICAL DATA



	Dimensions			
Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
Α	5.75	6.25	0.226	0.246
В	6.90	7.40	0.272	0.291
С	2.75	3.25	0.108	0.128
D	0.95	1.52	0.037	0.060
E	7.70	8.20	0.303	0.323
F	0.051	0.203	0.002	0.008
G	0.15	0.31	0.006	0.012
Н	2.15	2.62	0.085	0.103
J	2.40		0.094	
K		4.20		0.165
L	3.30		0.130	

REELSPECIFICATION

P/N	PKG	QTY
MBRS3100T3G(MS)	SMC	3000



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