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MOV

GDT

MBRS140T3G(MS)

Product specification





MBRS140T3G(MS)

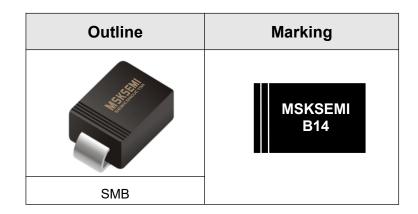
FEATURES

- Very Low Forward Voltage Drop
- Small Compact Surface Mountable Package
- Highly Stable Oxide Passivated Junction
- Guardring for Stress Protection
- Pb / RoHS Free

MECHANICALDATA

- Case : SMB Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Lead Formed for Surface Mount
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.1079 gram

Reference News



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratingat25°Cambienttemperatureunlessotherwisespecified. 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	Vrrm	40	V
Maximum Working Peak Reverse Voltage	Vrwm	40	V
Maximum DC Blocking Voltage	VDC	40	V
Maximum Average Rectified Forward Current (TL = 115°C)	lf(AV)	1.0	A
Non-repetitive Peak Surge Current			
(Surge applied at rated load conditions half wave, single phase)	IFSM	40	A
Maximum Instantaneous Forward Voltage (Note 1)			
$(IF = 1.0 \text{ A}, T_J = 25^{\circ}\text{C})$	VF	0.60	V
Maximum Instantaneous Reverse Current (Note1) TJ = 25°C	IR -	1.0	mA
$T_{J} = 100^{\circ}C$		10	mA
Thermal Resistance - Junction to Lead (T∟ = 25°C)	RÐJL	12	°C/W
Operating Junction Temperature	TJ	- 65 to +125	°C

Note: (1) Pulse Test : Pulse Width = 300µs Duty Cycle ≤ 2%



RATING AND CHARACTERISTIC CURVES

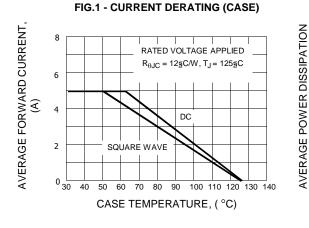


FIG.3 - TYPICAL FORWARD VOLTAGE

FIG.2 - POWER DISSIPATION

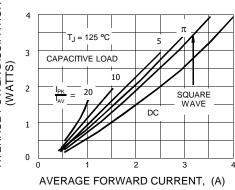


FIG.4 - TYPICAL REVERSE CURRENT

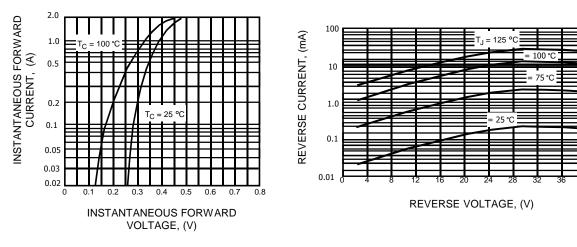
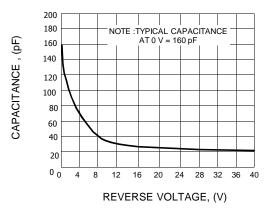
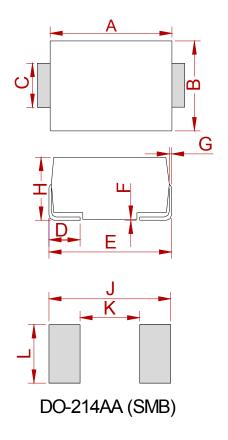


FIG. 5 TYPICAL CAPACITANCE



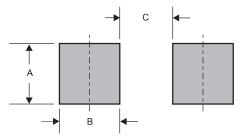


PACKAGE MECHANICAL DATA



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
А	4.25	4.75	0.167	0.187
В	3.30	3.94	0.130	0.155
С	1.85	2.21	0.073	0.087
D	0.76	1.52	0.030	0.060
Е	5.08	5.59	0.200	0.220
F	0.051	0.203	0.002	0.008
G	0.15	0.31	0.006	0.012
Н	2.11	2.44	0.083	0.096
J	6.80		0.270	
К		2.60		0.100
L	2.40		0.090	

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	А	В	С
SMB	0.078 (2.00)	0.059 (1.50)	0.110 (2.80)

REELSPECIFICATION

P/N	PKG	QTY
MBRS140T3G(MS)	SMB	3000



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