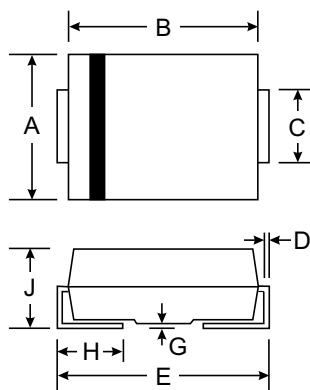


Features

- Highly Stable Oxidation Passivated Junction
- Guardring for Over - Voltage Protection
- Optimized for Low Leakage Current
- Pb / RoHS Free

Mechanical Data

- Case : SMA Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.060 gram (Approximately)



SMA		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

Maximum Ratings @ T_A = 25°C unless otherwise specified

RATING	SYMBOL	VALUE	UNIT
Maximum Peak Repetitive Reverse Voltage	V _{RRM}	20	V
Maximum Working Peak Reversr Voltage	V _{RWM}	20	V
Maximum DC Blocking Voltage	V _{DC}	20	V
Maximum Average Forward Current at T _C = 125 °C	I _{F(AV)}	1.0	V
Maximum Non-Repetitive Peak Surge Current (Surge Applied at Rate Load Conditions Halfwave, Single Phase, 60 Hz)	I _{FSM}	40	A
Maximum Instantaneous Forward Voltage (Note 1) (I _F = 1.0 A , T _J = 25°C) (I _F = 2.0 A , T _J = 25°C)	V _F	0.530 0.595	V
Maximum Instantaneous Reverse Current (Note 1) (V _R = rated V _R , T _J = 25 °C) (V _R = rated V _R , T _J = 100 °C)	I _R I _{RH}	10 1600	μA
Thermal Resistance Junction to Lead (Note 2)	R _{θJL}	34	°C/W
Thermal Resistance Junction to Ambient (Note 2)	R _{θJA}	138	°C/W
Storage/Operating Junction Temperature Range	T _{STG} , T _J	- 55 to + 150	°C

Notes :

- (1) Pulse Test : Pulse Width ≤ 250 μs, Duty Cycle ≤ 2 %.
- (2) Mounted on a Pad Size of 5 mm × 5 mm, PC Board FR4 (2 pads).



**FIG.1 - CURRENT DERATING,
JUNCTION TO CASE**

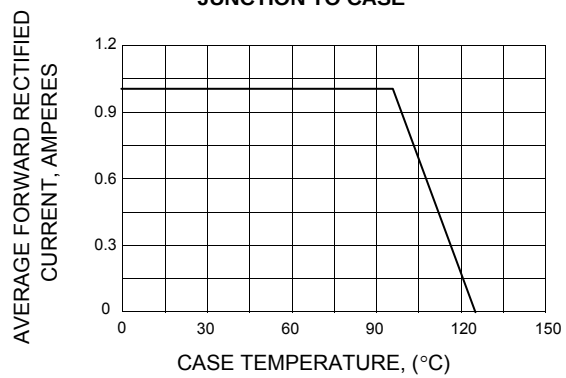
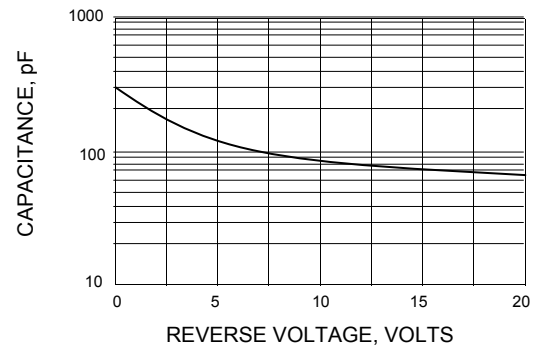


FIG.2 - TYPICAL JUNCTION CAPACITANCE



**FIG.3 - MAXIMUM INSTANTANEOUS
FORWARD VOLTAGE**

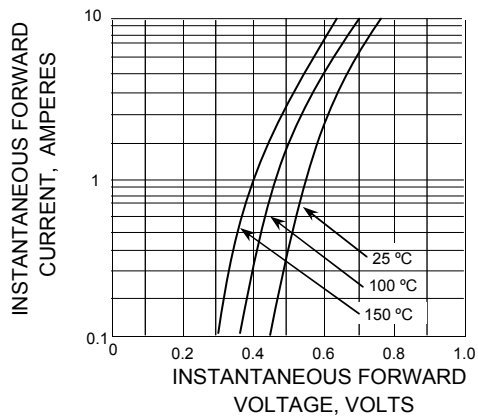


FIG. 4 - TYPICAL REVERSE CURRENT

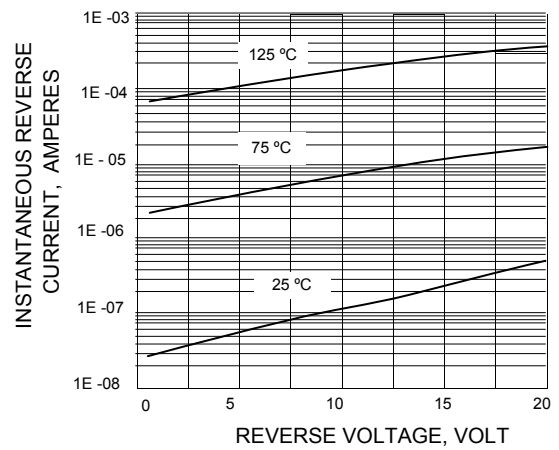


FIG. 5 - FORWARD POWER DISSIPATION

