

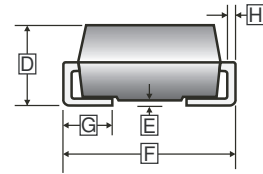
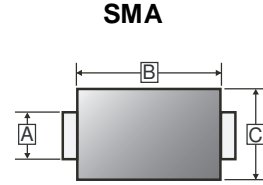
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering : 250°C for 10 Seconds at T erminals
- Low Reverse Current

MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Axial Leads, Solderable per MIL-STD-202 Method 208 Guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.25	1.65	E	0.051	0.203
B	3.99	4.60	F	4.78	5.28
C	2.50	2.90	G	0.76	1.52
D	1.98	2.44	H	0.152	0.305

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13 inch

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Rating	Unit
Peak Repetitive Peak reverse voltage	V_{RRM}	150	V
Working Peak Reverse Voltage	V_{RWM}	150	V
Maximum DC Blocking Voltage	V_{DC}	150	V
Average Forward Current @ $T_J=25^\circ\text{C}$	$I_{F(AV)}$	3	A
Peak Forward Current @ 8.3 ms Single Half Sine	I_{FSM}	80	A
Maximum Instantaneous Forward Voltage @ $I_F=3\text{A}$	V_F	0.87	V
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	$T_C=25^\circ\text{C}$	0.2
		$T_C=100^\circ\text{C}$	5
Typical Junction Capacitance ¹	C_J	100	pF
Typical Thermal Resistance ²	$R_{\theta JA}$	100	$^\circ\text{C/W}$
Typical Thermal Resistance ²	$R_{\theta JC}$	80	$^\circ\text{C/W}$
Voltage Rate of Change (Rated V_R)	dv/dt	10000	$\text{V}/\mu\text{s}$
Operating Temperature Range	T_J	-55~150	$^\circ\text{C}$
Storage temperature	T_{STG}	-55~150	$^\circ\text{C}$

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.
2. Device mounted on FR-4 substrate, 1"×1", 2oz, single-sided, PC boards with 0.1"×0.15" copper pad.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

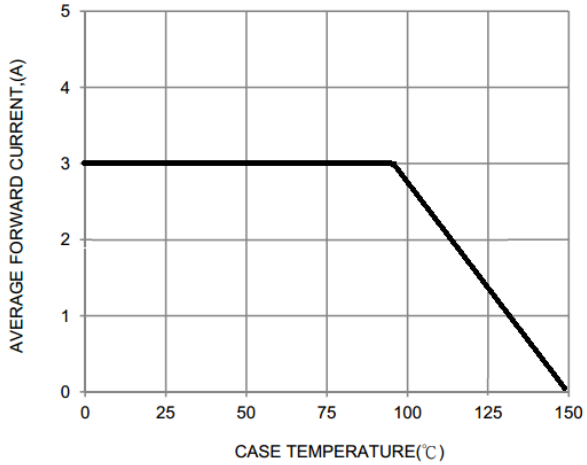


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

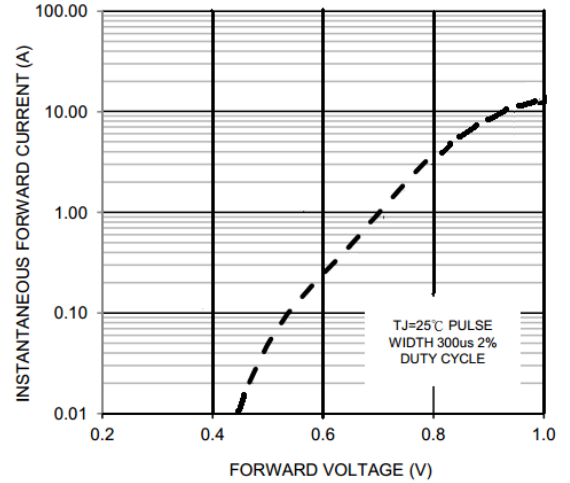


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

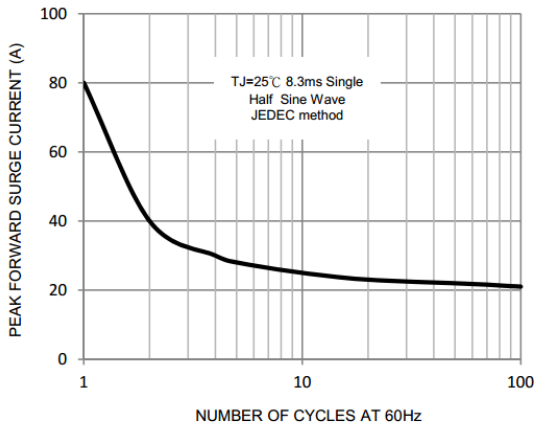


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

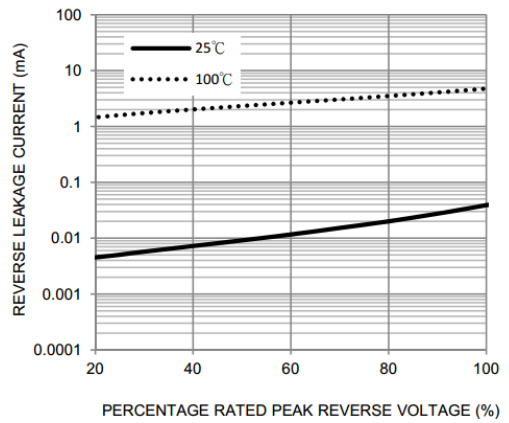


FIG. 5-TYPICAL JUNCTION CAPACITANCE

