

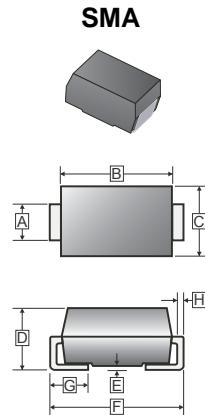
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

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



PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13' inch

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

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%).

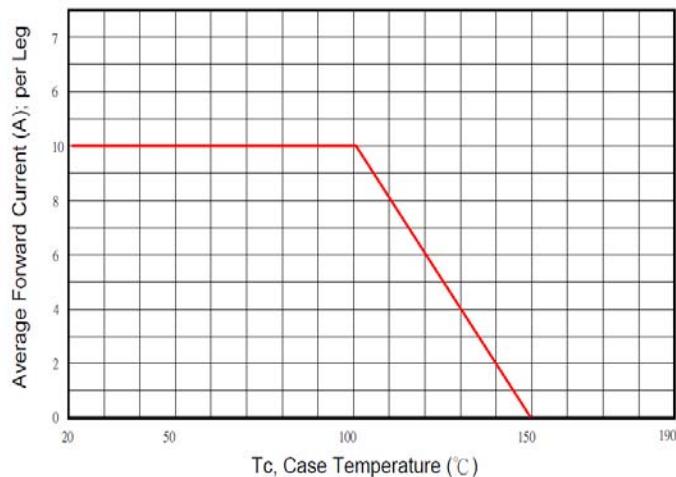
Parameter	Symbol	Rating	Unit
Peak Repetitive Peak reverse voltage	V _{RRM}	200	V
Working Peak Reverse Voltage	V _{RWM}	200	V
Maximum DC Blocking Voltage	V _R	200	V
Average Forward Current @ T _J =25°C	I _{F(AV)}	2	A
Peak Forward Current @ 8.3 ms Half Sine	I _{FSM}	50	A
Maximum Instantaneous Forward Voltage	I _{FM} = 2.0 A, T _A = 25°C	0.9	V
		0.85	
		0.72	
Maximum DC Reverse Current At Rated DC Blocking Voltage ⁴	T _J = 25°C	0.2	mA
	T _J = 100°C	5	
Typical Junction Capacitance ¹	C _J	70	pF
Typical Thermal Resistance ²	R _{θJA}	80	°C / W
Typical Thermal Resistance ³	R _{θJC}	26	°C / W
Voltage Rate of Change (Rated V _R)	dv / dt	1000	V / μs
Operating Temperature Range	T _J	-50~150	°C
Storage temperature	T _{STG}	-65~150	°C

Notes:

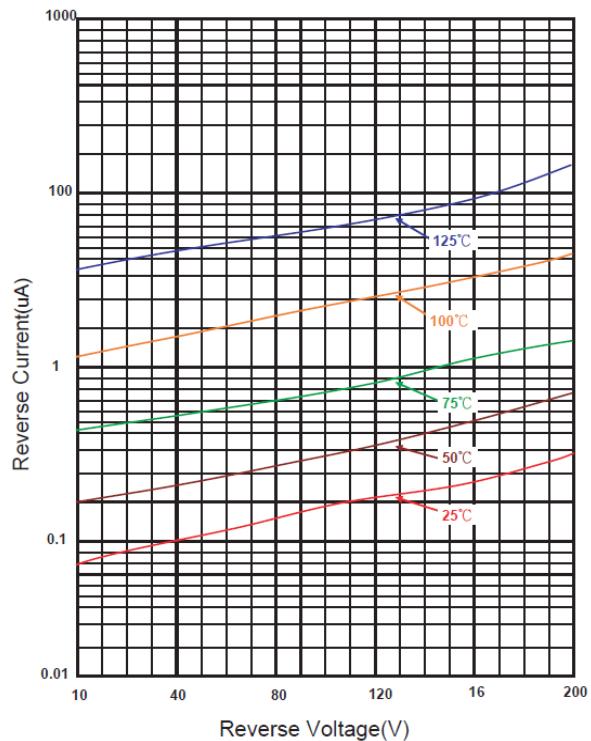
1. Measured at 1MHz and applied reverse voltage of 5.0 V D.C.
2. Thermal Resistance Junction to Ambient.
3. Thermal Resistance Junction to Case.
4. Pulse test: 300us pulse width, 1% duty cycle

RATINGS AND CHARACTERISTIC CURVES

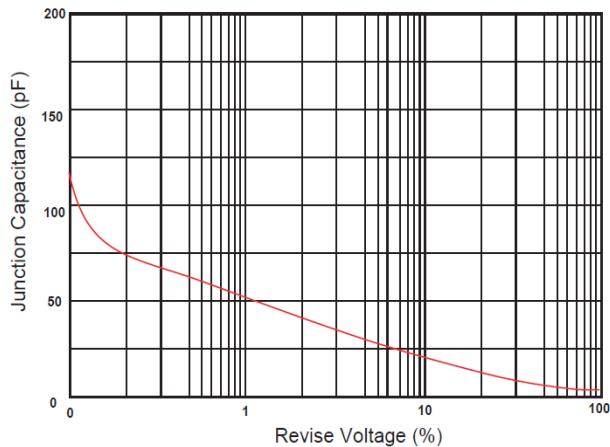
Typical Forward Current Derating Curve



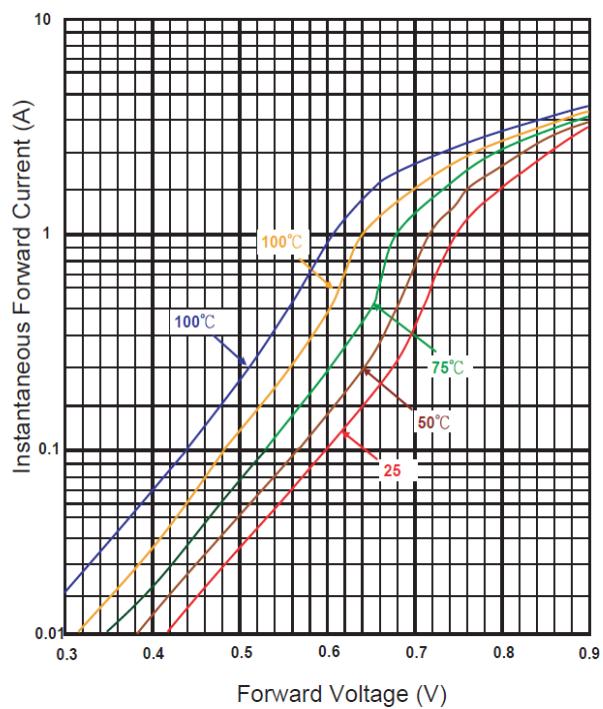
Typical Reverse Characteristic



Typical Junction Capacitance



Typical Forward Characteristic



Maximum Non-Repetitive Forward Surge Current

