seCos
Elektronische Bauelemente

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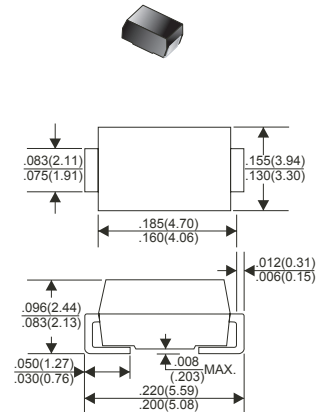A suffix of "-C" specifies halogen & lead-free

FEATURES

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

DO-214AA (SMB)

.083(2.11)/.075(1.91) .155(3.94)/.130(3.30)
.185(4.70)/.160(4.06)
.012(0.31)/.006(0.15)
.096(2.44)/.083(2.13)
.050(1.27)/.030(0.76) .008(.203) MAX.
.220(5.59)/.200(5.08)

Dimensions in inches and (millimeters)

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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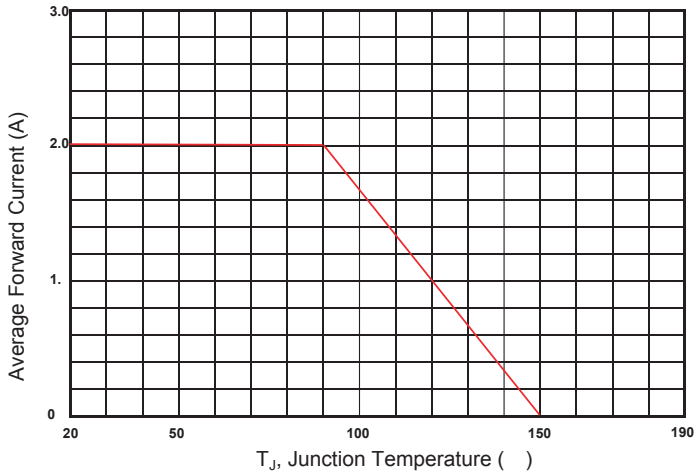For capacitive load, derate current by 20%.

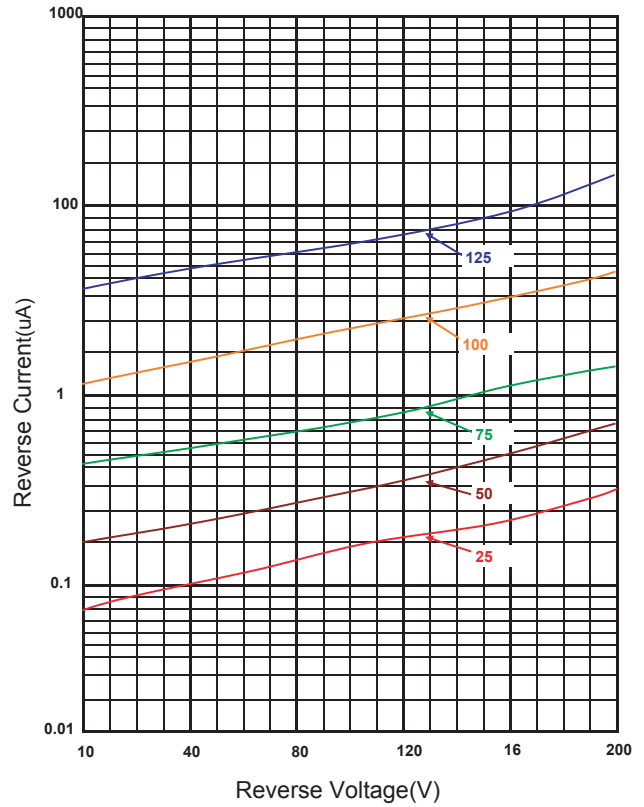| TYPE NUMBER	SYMBOL	SM2200B	UNITS
Peak Repetitive Peak reverse voltage Working Peak Reverse Voltage Maximum DC Blocking Voltage	V_{RRM} V_{RWM} V_R	200	V
Average Forward Current @T_J=25°C	$I_{F(AV)}$	2	A
Peak Forward Current @ 8.3 ms Half Sine	I_{FSM}	60	A
Maximum Instantaneous Forward Voltage V_F @ I_{FM} = 2.0 A, T_A = 25°C V_F @ I_{FM} = 2.0 A, T_A = 75°C V_F @ I_{FM} = 2.0 A, T_A = 125°C	V_F	0.85 0.75 0.68	V
Maximum DC Reverse Current At Rated DC Blocking Voltage @ T_J = 25°C At Rated DC Blocking Voltage @ T_J = 100°C	I_R	5 50	μA
Typical Junction Capacitance (Note 1)	C_J	40	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50	°C/W
Voltage Rate of Chance (Rated V_R)	dv/dt	1000	V/us
Operating Temperature Range	T_J	-50 ~ + 125	°C
Storage temperature	T_{STG}	-65 ~ + 150	°C

NOTES:
1. Measured at 1MHz and applied reverse voltage of 5.0 V D.C.
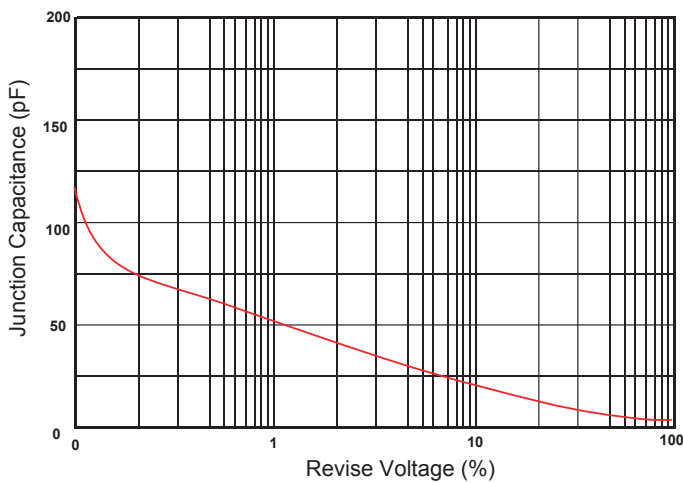2. Thermal Resistance Junction to Ambient.

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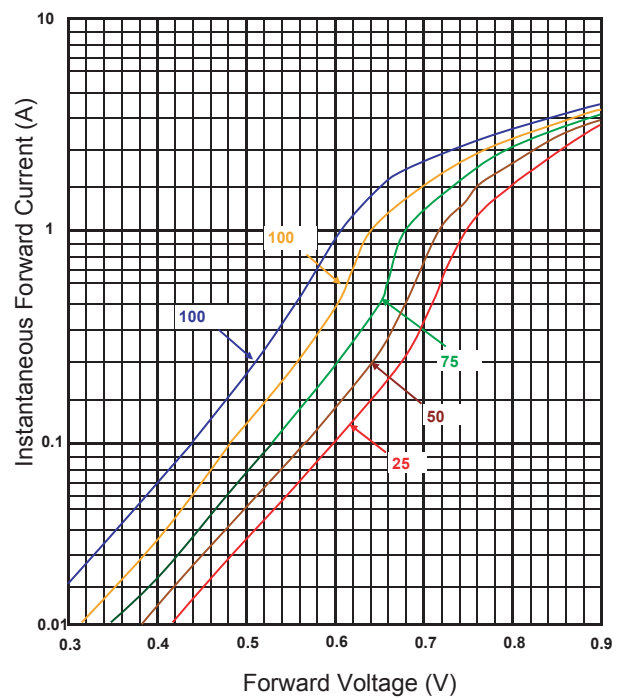## RATINGS AND CHARACTERISTIC CURVES

Typical Forward Current Derating Curve

Typical Reverse Characteristic

Typical Junction Capacitance

Maximum Non- Repetitive Forward Surge Current

$T_J=25$

8.3mS Single half Sine Wave JEDEC Method

Typical Forward Characteristic