Elektronische Bauelemente

SM8200C-C

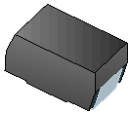
Voltage 200V, 8.0 Amp
Schottky Barrier Rectifiers

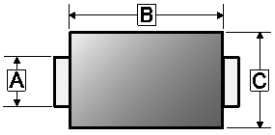
RoHS Compliant Product
A suffix of “-C” specifies halogen & lead-free

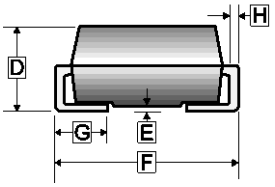
FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering
- Low Revise Current

SMC







REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.750	3.270	E	-	0.203
B	6.520	7.110	F	7.640	8.170
C	5.50	6.220	G	0.750	1.520
D	1.980	2.620	H	0.23 TYP	

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
SMC	3K	13 inch

ORDER INFORMATION

Part Number	Type
SM8200C-C	Lead (Pb)-free and Halogen-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

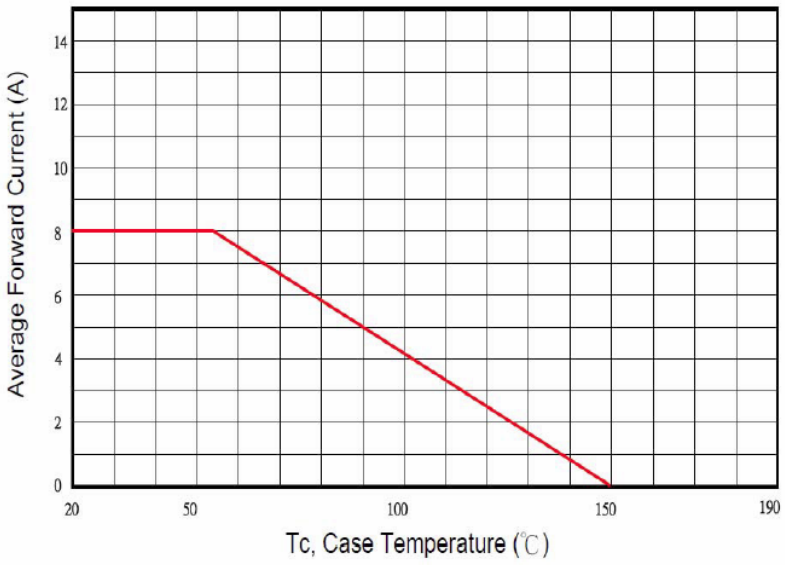
(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Ratings	Unit
Peak Repetitive Peak Reverse Voltage		V_{RRM}	200	V
Working Peak Reverse Voltage		V_{RWM}	200	V
Maximum DC Blocking Voltage		V_{DC}	200	V
Average Forward Current		$I_{F(AV)}$	8	A
Peak Forward Current @8.3ms Half Sine		I_{FSM}	125	A
Maximum Instantaneous Forward Voltage @8A		V_F	0.91	V
Maximum DC Reverse Current @Rated DC Blocking Voltage [2]	T_J=25°C	I_R	0.05	mA
	T_J=125°C		20	
Typical Junction Capacitance [1]		C_J	200	pF
Voltage Rate of Chance (Rated VR)		dv/dt	10000	V/μS
Thermal Resistance Junction-Case		$R_{\theta JC}$	25	°C/W
Thermal Resistance Junction-Lead		$R_{\theta JL}$	20	°C/W
Operating Temperature Range		T_J	-50~150	°C
Storage Temperature		T_{STG}	-50~150	°C

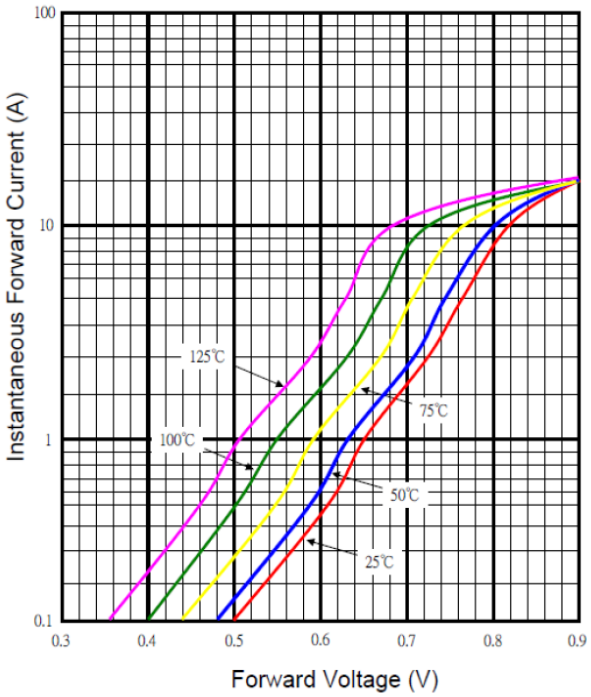
Notes:
1. Measured at 1MHz and applied reverse voltage of 5V D.C.
2. Pulse test: 300μs pulse width, 1% duty cycle.

RATINGS AND CHARACTERISTIC CURVES

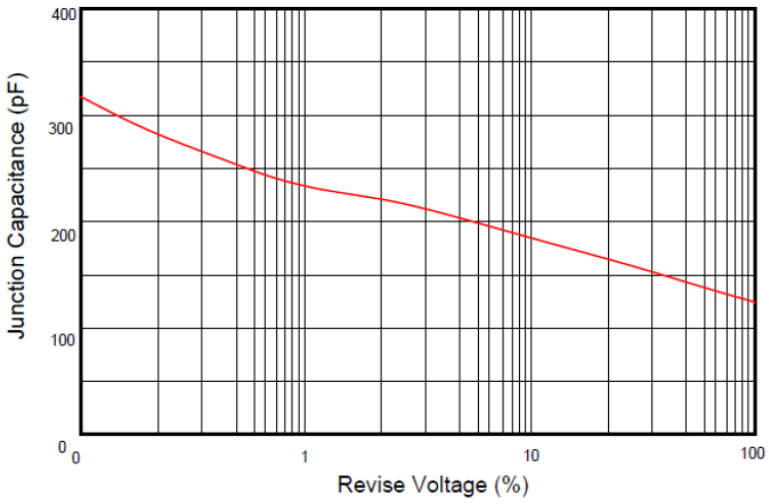
Typical Forward Current Derating Curve



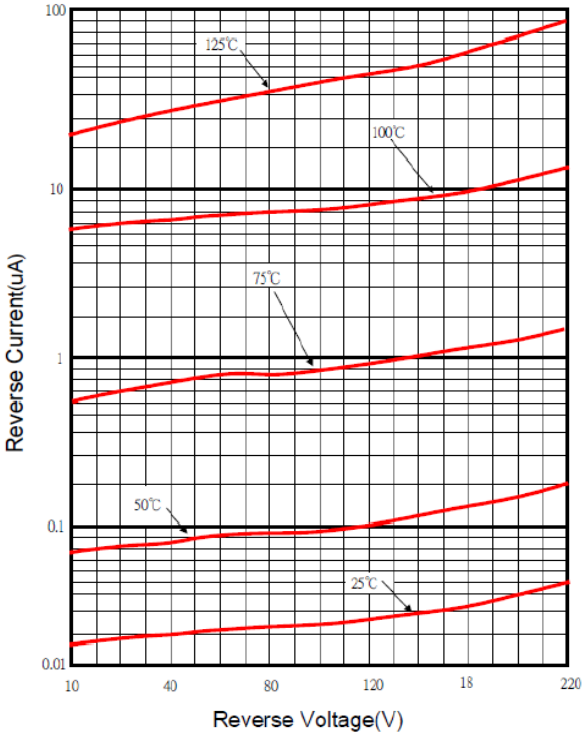
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current