Elektronische Bauelemente

SM10200C

Voltage 200V

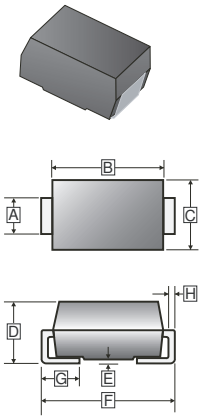
10.0 Amp Schottky Barrier Rectifiers

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

FEATURES

- RoHS Compliant Product
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

SMC



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.75	3.15	E	-	0.203
B	6.60	7.11	F	7.75	8.13
C	5.59	6.22	G	0.76	1.27
D	2.00	2.62	H	0.15	0.31

MECHANICAL DATA

- Case：Molded Plastic
- Epoxy：UL 94V-0 Rate Flame Retardant
- Metallurgically bonded construction
- Polarity：Color Band Denotes Cathode End
- Mounting Position: Any
- Weight：1.10 grams

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMC	3K	13 inch

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25℃ ambient temperature unless otherwise s pecified. 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_{RSM}	200	V
Maximum DC Blocking Voltage		V_{DC}	200	V
Maximum Average Forward Current, See Fig. 1		I_F	10	A
Peak Forward Surge Current @ 8.3 ms Half Sine-Wave superimposed on rated load (JEDEC method)		I_{FSM}	150	
Maximum Instantaneous Forward Voltage @ I_F=10A		V_F	0.92	V
Maximum DC Reverse Current At Rated DC Blocking Voltage [3]	T_J = 25℃	I_R	0.05	mA
	T_J = 125℃		5	
Typical Junction Capacitance [1]		C_J	250	pF
Typical Thermal Resistance [2]		$R_{\theta JC}$	13	℃ / W
Operating Temperature Range		T_J	-50 ~ 150	℃
Storage temperature		T_{STG}	-65 ~ 150	℃

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.
2. Thermal Resistance Junction to Case
3. Pulse Test：Pulse Width = 300 μs, Duty Cycle ≦ 2.0%.

Elektronische Bauelemente

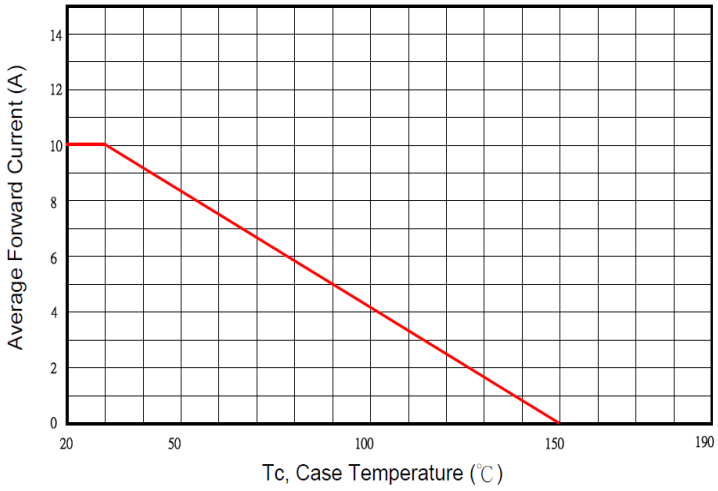
SM10200C

Voltage 200V

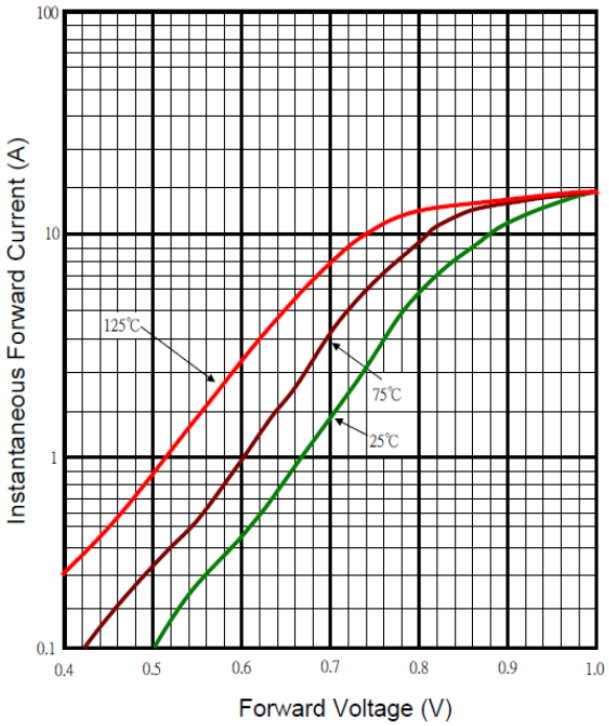
10.0 Amp Schottky Barrier Rectifiers

CHARACTERISTIC CURVES

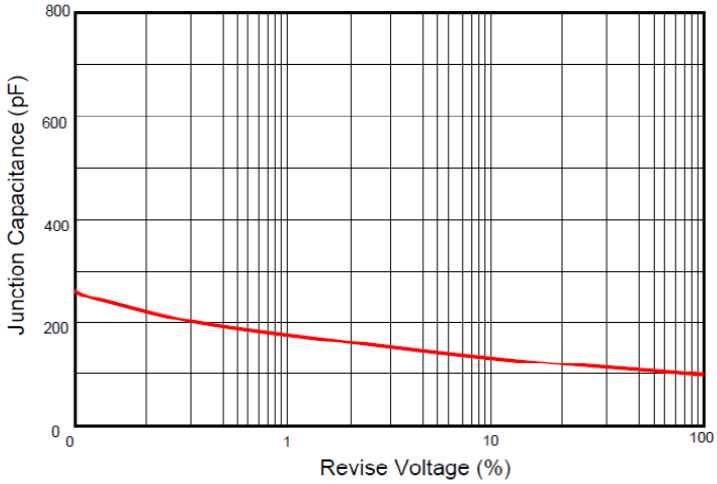
Typical Forward Current Derating Curve



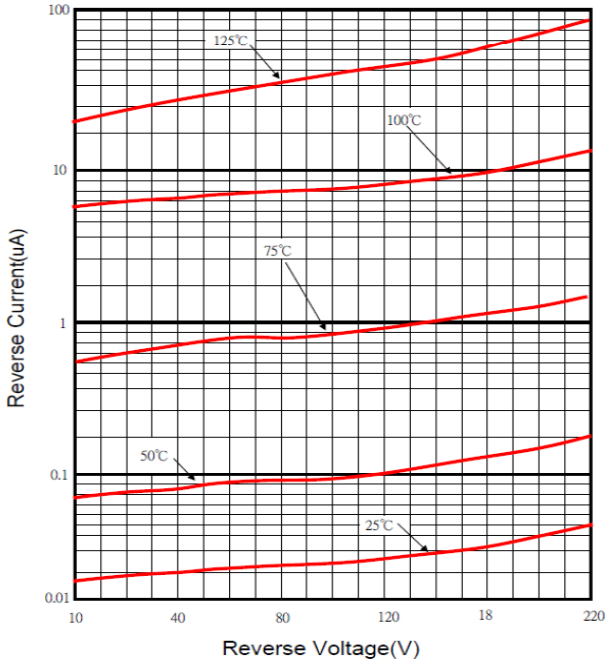
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current