Elektronische Bauelemente

SM3200A

VOLTAGE 200 V

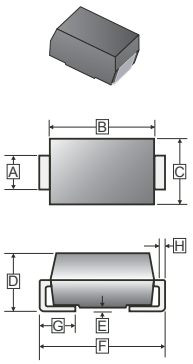
3.0 A Schottky Barrier Rectifiers

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 : 250°C for 10 Seconds at Terminals
- Low Revise Current

SMA



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

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	LeaderSize
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}	200	V
Working Peak Reverse Voltage		V_{RWM}	200	
Maximum DC Blocking Voltage		V_R	200	
Average Forward Current @T_J=25°C		$I_{F(AV)}$	3	A
Peak Forward Current @ 8.3 ms Half Sine		I_{FSM}	80	A
Maximum Instantaneous Forward Voltage	I_{FM} = 3.0 A, T_A = 25°C	V_F	0.85	V
	I_{FM} = 3.0 A, T_A = 75°C		0.75	
	I_{FM} = 3.0 A, T_A = 125°C		0.68	
Maximum DC Reverse Current At Rated DC Blocking Voltage [3]	T_J = 25°C	I_R	50	μA
	T_J = 100°C		500	
Typical Junction Capacitance [1]		C_J	60	pF
Typical Thermal Resistance [2]		$R_{\theta JC}$	25	°C / W
Voltage Rate of Chance (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 Case.
3. Pulse test: 300uS pulse width, 1% duty cycle.

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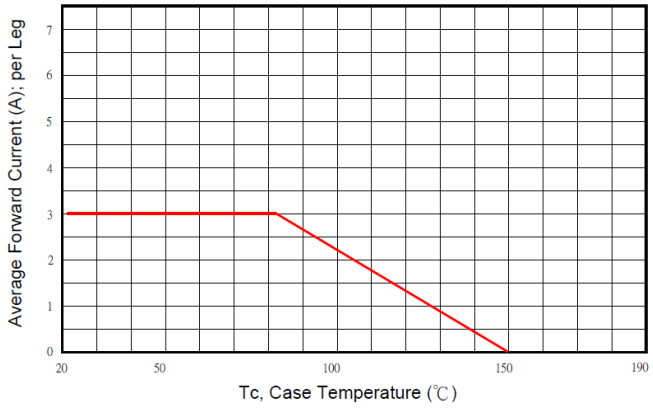
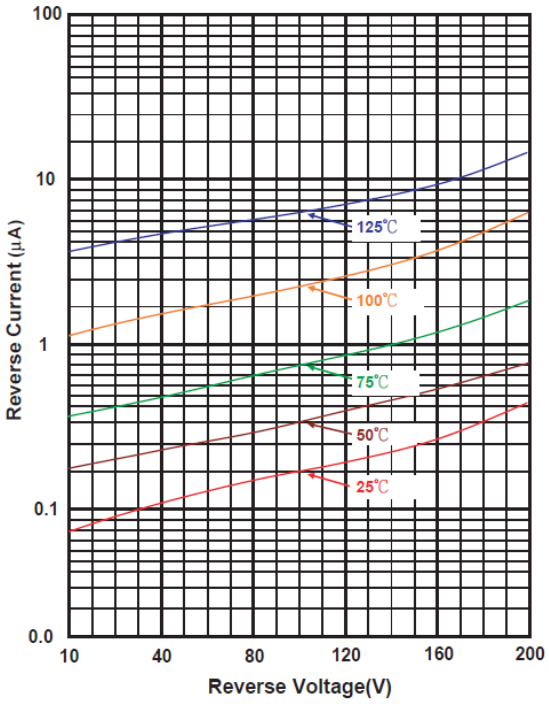
RATINGS AND CHARACTERISTIC CURVES

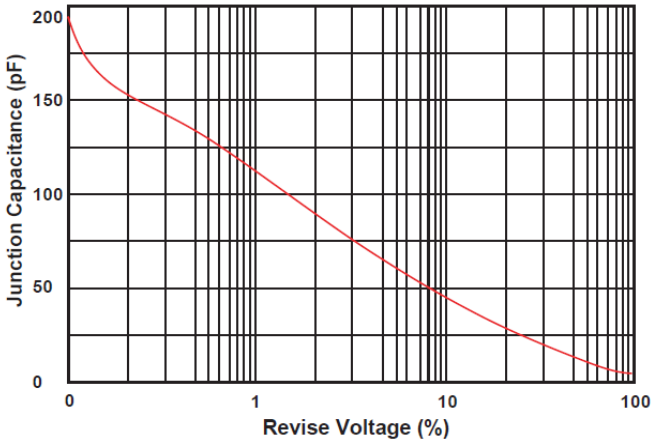
Typical Forward Current Derating Curve



Typical Reverse Characteristic

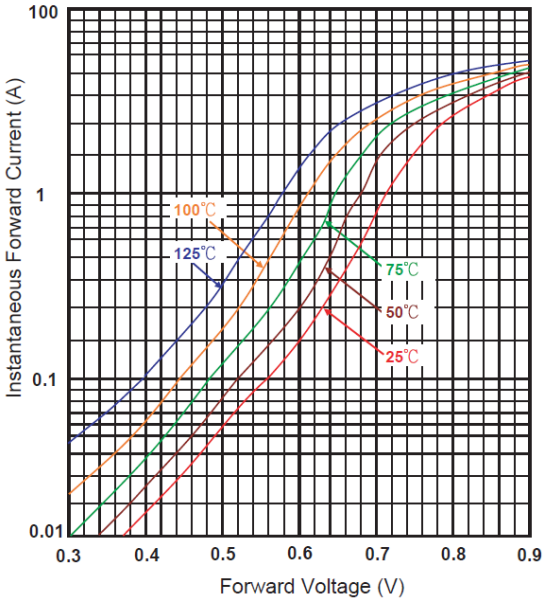


Typical Junction Capacitance



Reverse Voltage(V)

Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current