Elektronische Bauelemente

SM1200A

VOLTAGE 200 V

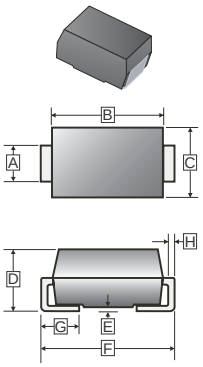
1.0 A Schottky Barrier Rectifiers

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

FEATURES

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Low forward voltage drop

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

PACKAGING INFORMATION

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Metallurgically bonded construction
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any
- Weight: 0.0630 g (approximate)

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	SM1200A	UNITS
Maximum Recurrent Peak Reverse Voltage Working Peak Reverse Voltage Maximum DC Blocking Voltage	V_{RRM} V_{RWM} V_R	200 200 200	V
Maximum Average Forward Rectified Current See Fig. 1	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	25	A
Maximum Instantaneous Forward Voltage I_{FM}=1A T_A=25°C I_{FM}=1A T_A=125°C	V_F	0.9 0.72	V
Maximum DC Reverse Current @ T_A = 25°C At Rated DC Blocking Voltage @ T_A = 125°C	I_R	30 5	uA mA
Typical Junction Capacitance (Note1)	C_J	50	pF
Typical Thermal Resistance	$R_{\theta JL}$	45	°C/W
Operating Temperature Range	T_J	-50 ~ + 150	°C
Storage temperature	T_{STG}	-65 ~ + 175	°C

NOTES:
1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.
2. Thermal Resistance Junction to Lead.

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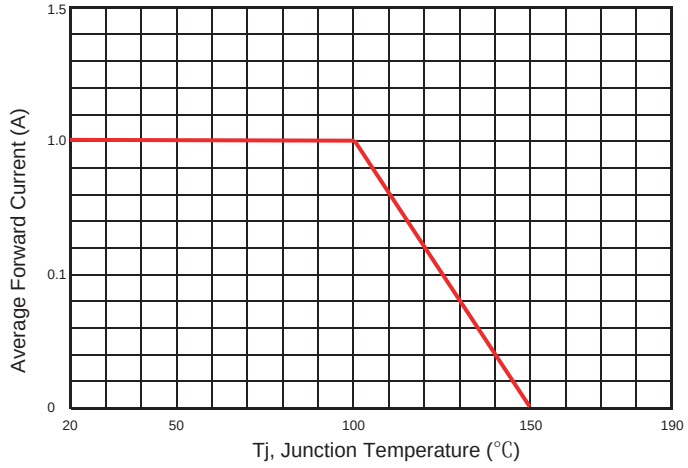
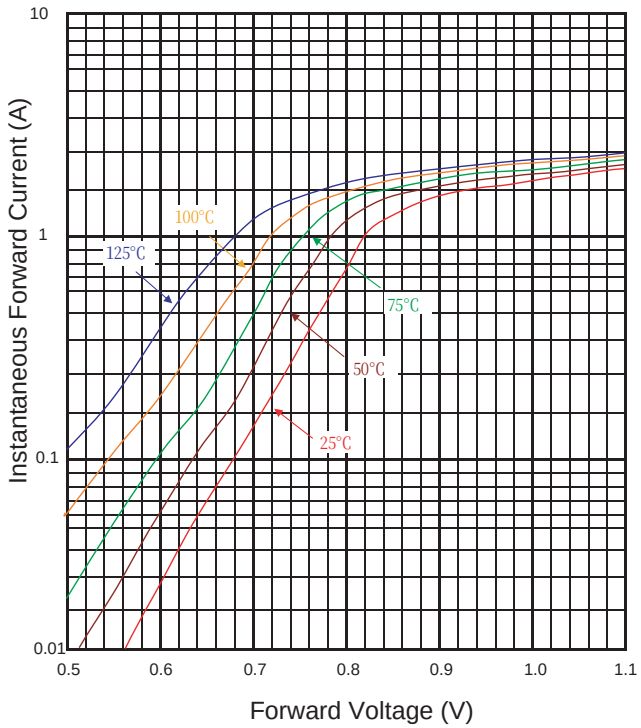
RATINGS AND CHARACTERISTIC CURVES

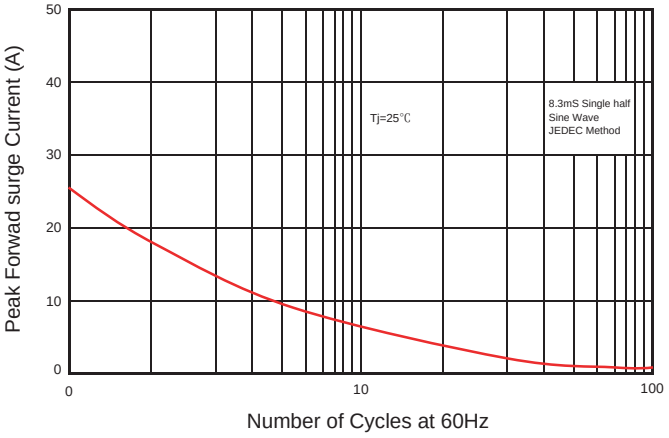
Typical Forward Current Derating Curve



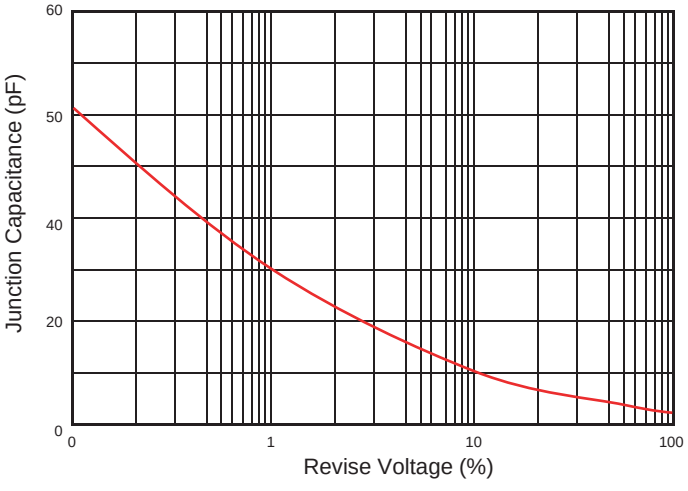
Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current



Typical Junction Capacitance



Typical Reverse Characteristic