Elektronische Bauelemente

SM1200B

VOLTAGE 200 V

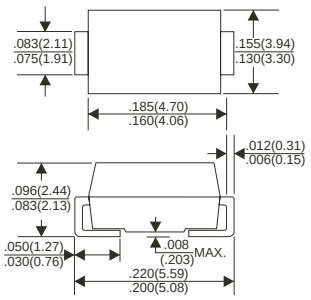
1.0 A Schottky Barrier Rectifiers

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

DO-214AA (SMB)



Dimensions in inches and (millimeters)

PACKAGING INFORMATION

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Metallurgically bonded construction
- 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	SM1200B	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_F=1A T_A=25°C (Note: 3) @ I_F=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 (Note: 3)	I_R	30 5	uA mA
Typical Junction Capacitance (Note1)	C_J	50	pF
Typical Thermal Resistance	$R_{\theta JL}$	25	°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.
3. Pulse test: 300us pulse width, 1% duty cycle

Elektronische Bauelemente

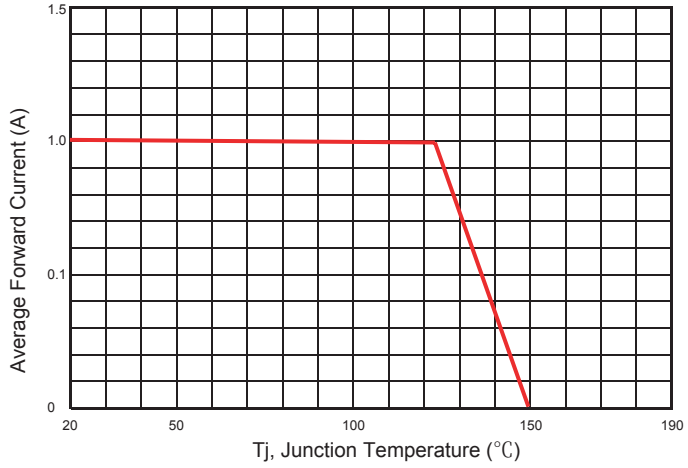
SM1200A

VOLTAGE 200 V

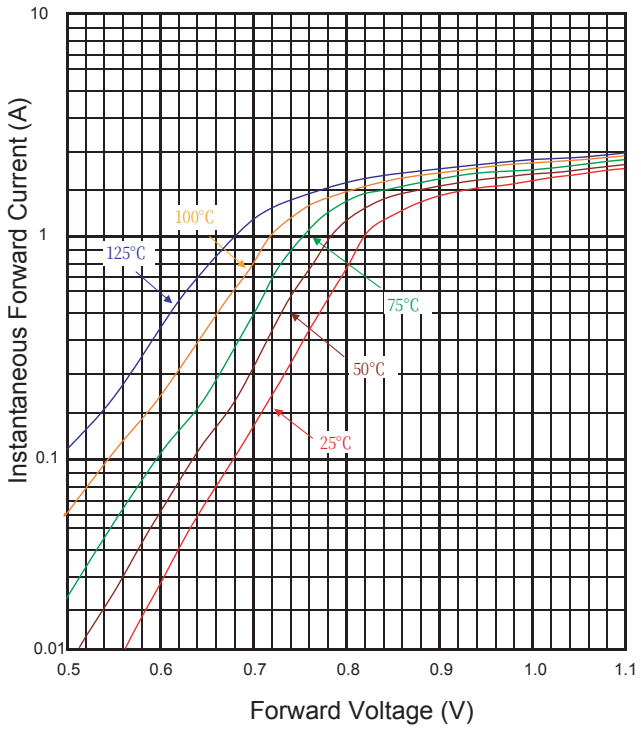
1.0 A Schottky Barrier Rectifiers

RATINGS AND CHARACTERISTIC CURVES

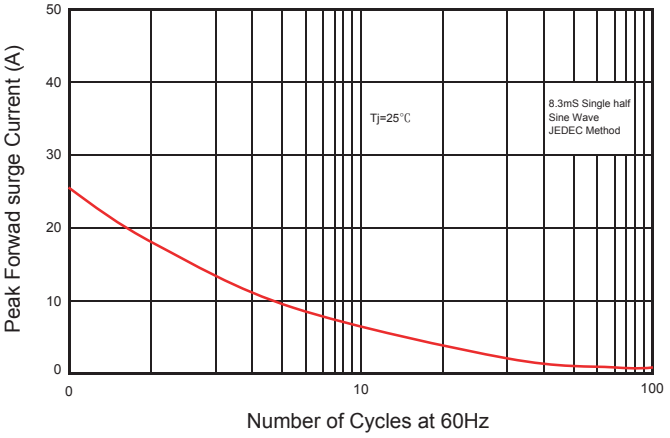
Typical Forward Current Derating Curve



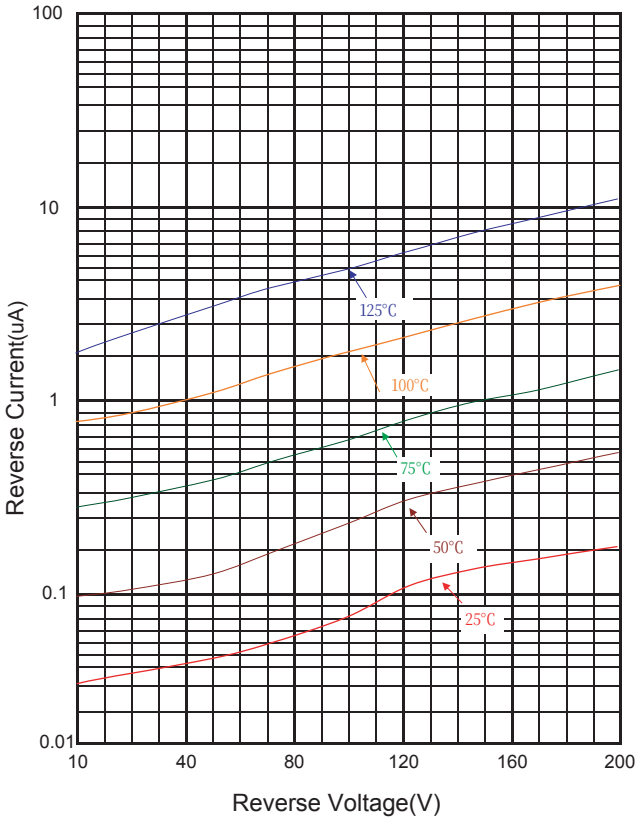
Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic



Typical Junction Capacitance