Elektronische Bauelemente

SM1200A-C

Voltage 200V

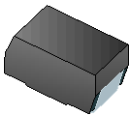
1.0 Amp Surface Mount Schottky Barrier Rectifiers

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



MECHANICAL DATA

- Metallurgically bonded construction
- Polarity: Color band denotes cathode end
- Case: Molded plastic
- Epoxy: UL94-V0 rate flame retardant

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13 inch

ORDER INFORMATION

Part Number	Type
SM1200A-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
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	200	V
Maximum RMS Voltage		V_{RMS}	140	V
Maximum DC Blocking Voltage		V_{DC}	200	V
Average Rectified Output Current @T_L=100°C		I_F	1	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	35	A
Forward Voltage @I_F=1A		V_F	0.9	V
Peak Reverse Current @Rated DC Blocking Voltage	T_A=25°C	I_R	0.05	mA
	T_A=100°C		5	
Typical Junction Capacitance [1]		C_J	35	pF
Thermal Resistance Junction-Lead [2]		$R_{\theta JL}$	75	°C/W
Operating & Storage Temperature		T_J, T_{STG}	-55~150	°C

Notes:
1. Measured at 1MHz and applied reverse voltage of 4V D.C.
2. Device mounted on FR-4 substrate, 1"* 1", 2oz, single-sided, PC boards with 0.1"*0.15" copper pad.

RATINGS AND CHARACTERISTIC CURVES

Fig. 1 Forward Current Derating Curve

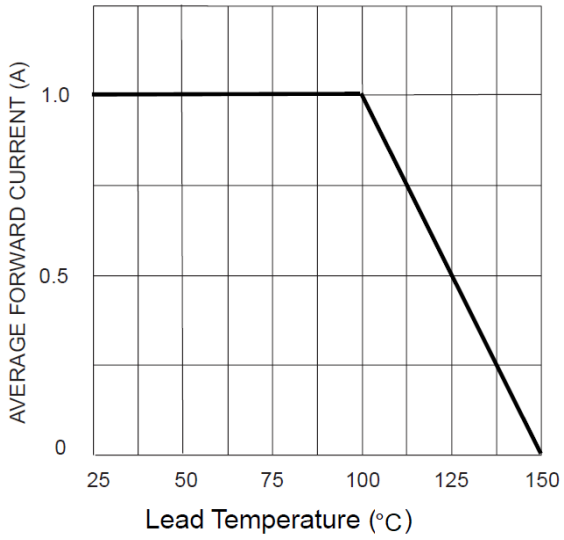


Fig. 2 Typ. Forward Characteristics

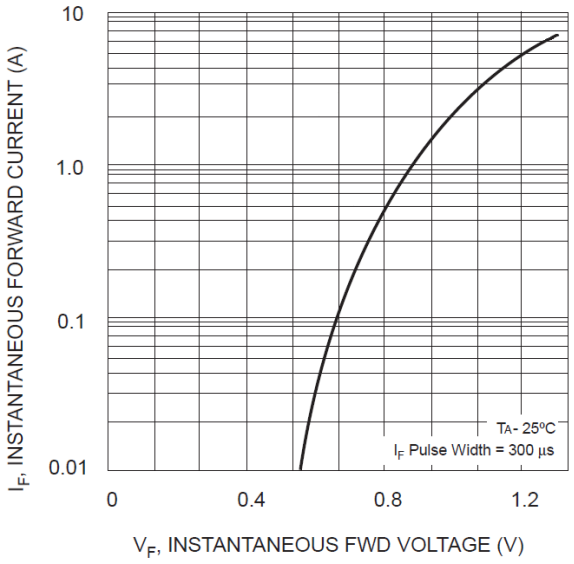


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

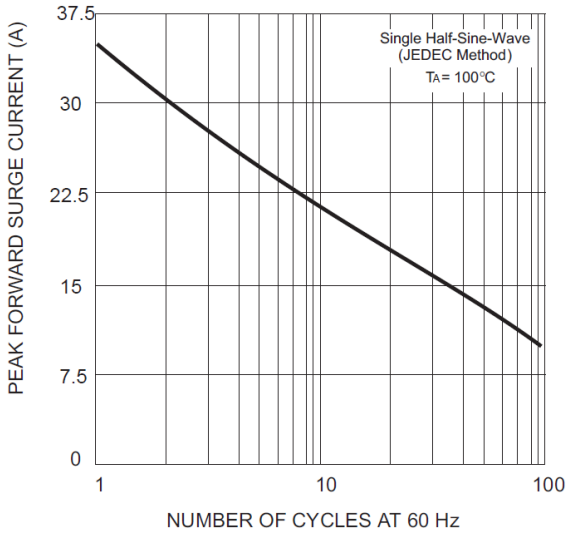
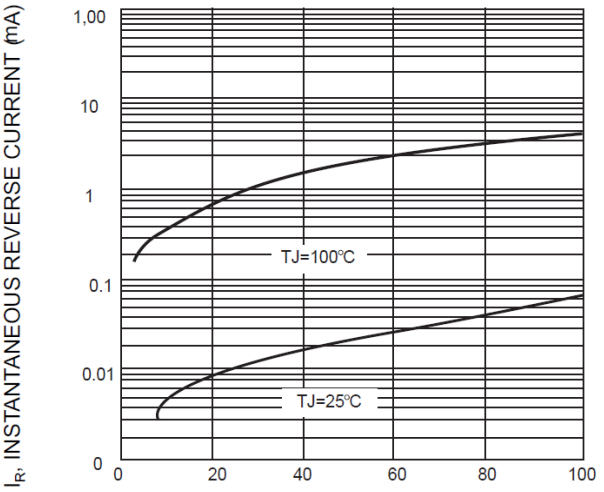
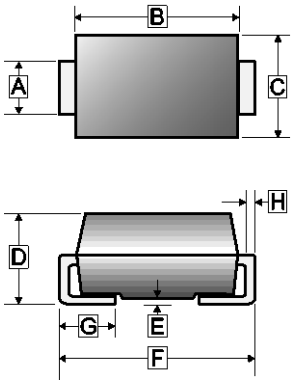


Fig. 4 T ypical Reverse Characteristics (per element)



PACKAGE OUTLINE DIMENSIONS

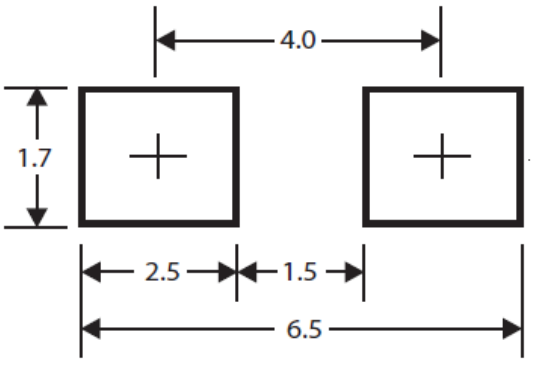
SMA



REF.	Millimeter	
	Min.	Max.
A	1.23	1.65
B	3.99	4.75
C	2.30	2.90
D	1.90	2.62
E	-	0.30
F	4.70	5.28
G	0.75	1.52
H	0.15	0.31

MOUNTING PAD LAYOUT

SMA



*Dimensions in millimeters