

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

FEATURES

- High Current Capability
- High Surge Current Capability
- Fast Switching for High Efficiency
- Low Reverse Current

MECHANICAL DATA

- Case: Molded plastic SMA
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead free Plating (Tin Finish)
Solderable per MIL STD 202, Method 208
- Polarity: Cathode Band

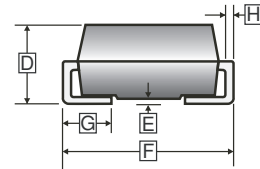
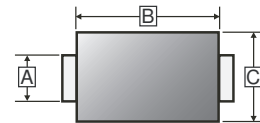
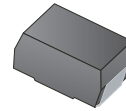
PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13 inch

ORDER INFORMATION

Part Number	Type
ES14A	Lead (Pb)-free
ES14A-C	Lead (Pb)-free and Halogen-free

SMA



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.24	1.65	E	-	0.3
B	3.99	4.75	F	4.80	5.28
C	2.30	2.90	G	0.76	1.52
D	1.90	2.62	H	0.15	0.31

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}	400	V
Maximum RMS Voltage	V_{RMS}	280	V
Maximum DC Blocking Voltage	V_{DC}	400	V
Maximum Average Forward Rectified Current	I_F	1	A
Peak Forward Surge Current, @8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	35	A
Maximum Instantaneous Forward Voltage @ $I_F=1A, T_A=25^\circ C$	V_F	1.25	V
Maximum DC Reverse Current @Rated DC Blocking Voltage	$T_A=25^\circ C$	5	μA
	$T_A=100^\circ C$	50	
Typical Junction Capacitance ¹	C_J	10	pF
Maximum Reverse Recovery Time ²	T_{RR}	25	nS
Typical Thermal Resistance ³	$R_{\theta JC}$	30	$^\circ C/W$
Operating & Storage Temperature	T_J, T_{STG}	-55~150	$^\circ C$

Notes:

1. Measured at 1MHz and applied reverse voltage of 4V DC.
2. Measured with $I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$.
3. Mounted on 0.2"0.2" (5*5mm) Copper Pad Area.

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Typical Forward Current Derating Curve

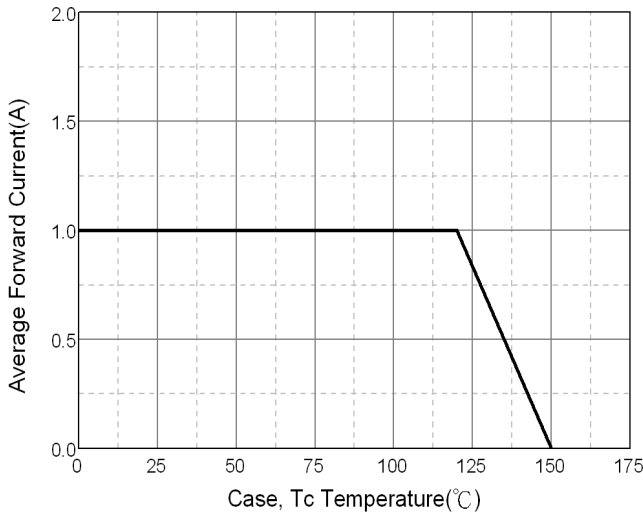


FIG. 2-Typical Forward Characteristics

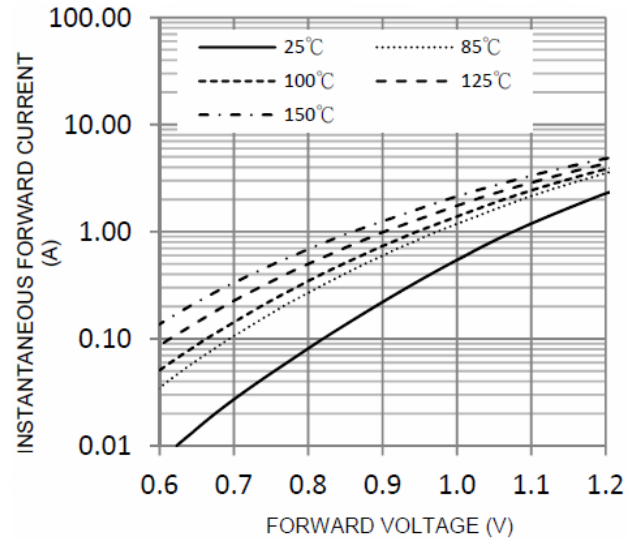


FIG. 3-Maximum Non-Repetitive Forward Surge Current

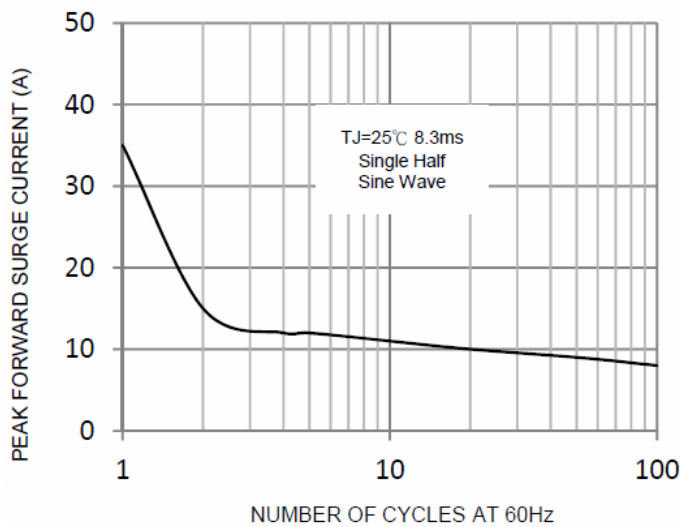


FIG. 4-Typical Reverse Characteristics

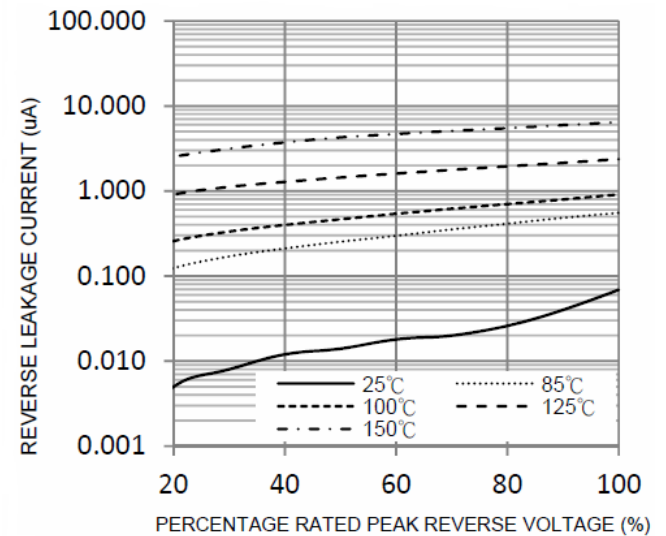


FIG. 5-Typical Junction Capacitance

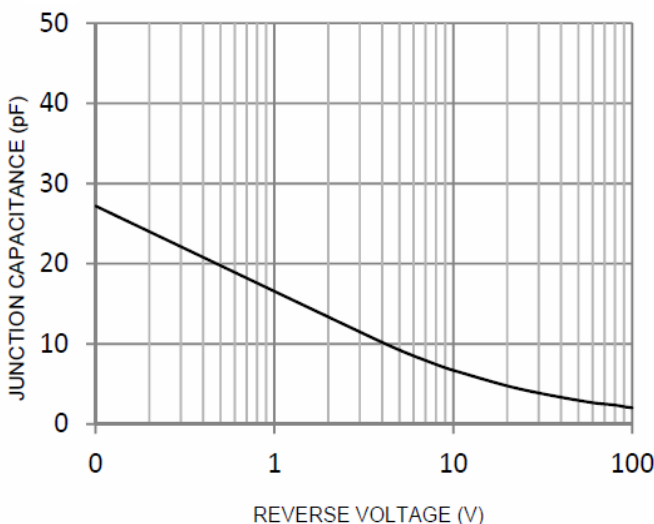


FIG. 6-Reverse Recovery Time Characteristic and Test Circuit

