

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

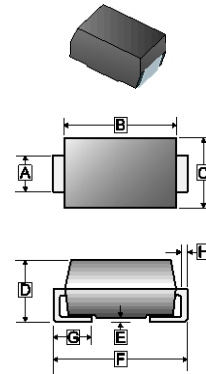
FEATURES

- Glass Passivated Junction
- Surface Mount Device
- High Surge Current Capability
- Low Reverse Current

MECHANICAL DATA

- 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

SMA



PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.23	1.65	E	-	0.3
B	3.99	4.75	F	4.70	5.28
C	2.30	2.90	G	0.75	1.52
D	1.90	2.62	H	0.15	0.31

ORDER INFORMATION

Part Number	Type
SEF101A-C~SEF107A-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	Part Number								Unit
		SEF 101A-C	SEF 102A-C	SEF 103A-C	SEF 104A-C	SEF 105A-C	SEF 106A-C	SEF 107A-C		
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700		
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000		
Maximum Average Forward Rectified Current $T_A=55^\circ\text{C}$	I_F	1								A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30								A
Maximum Instantaneous Forward Voltage @1A	V_F	1		1.3		1.5		1.7		V
Maximum DC Reverse Current @Rated DC Blocking Voltage	$T_A=25^\circ\text{C}$	5								μA
	$T_A=100^\circ\text{C}$	100								
Typical Junction Capacitance ¹	C_J	20					15			pF
Maximum Reverse Recovery Time ²	T_{RR}	50					75			nS
Thermal Resistance from Junction-Ambient	$R_{\theta JA}$	55								$^\circ\text{C}/\text{W}$
Operating Junction & Storage Temperature	T_J, T_{STG}	-55~150								$^\circ\text{C}$

Notes:

1. Measured at 1MHz and applied reverse voltage of 4V D.C.
2. Measured with $I_F=0.5\text{A}$, $I_R=1\text{A}$, $I_{RR}=0.25\text{A}$.

RATINGS AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

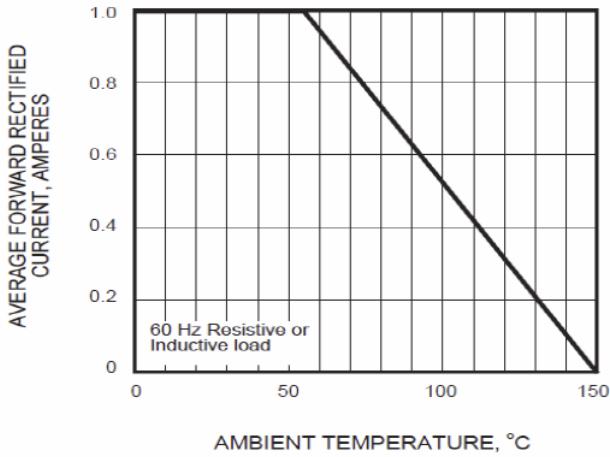


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

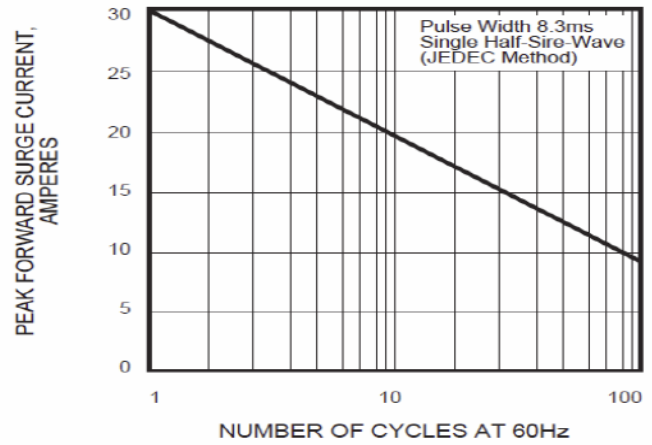


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

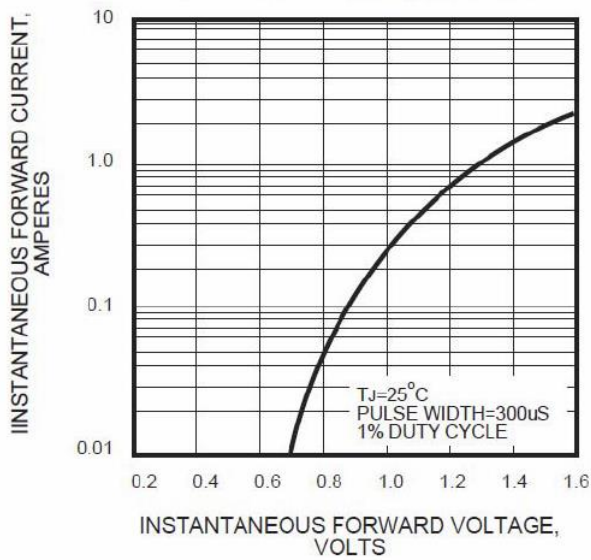


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

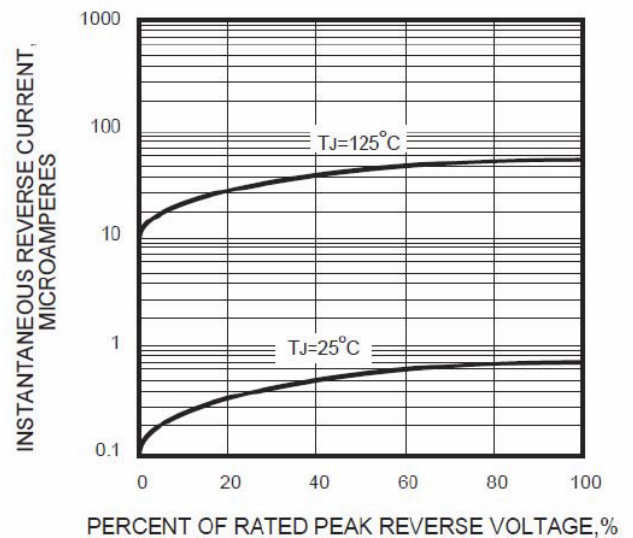


FIG.5 - TYPICAL JUNCTION CAPACITANCE

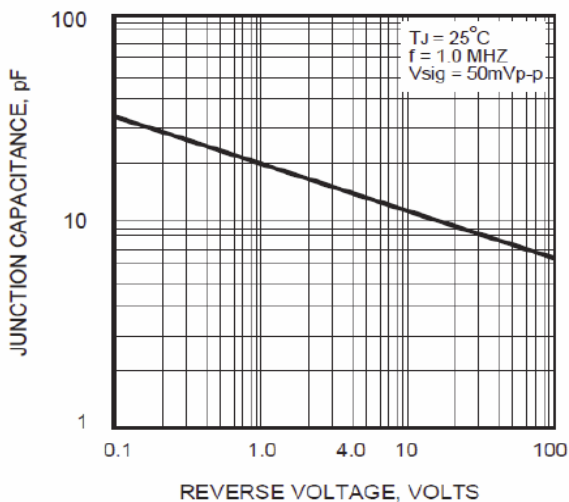


FIG.6 - MOUNTING PAD LAYOUT

