

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

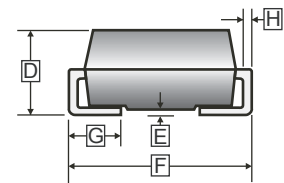
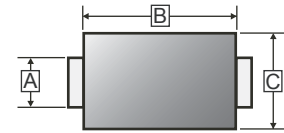
FEATURES

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief

MECHANICAL DATA

- Case: Molded plastic SMA
- Epoxy: UL 94V-0 rate flame retardant
- Polarity: Color band denotes cathode
- Mounting position: Any

SMA



PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13' inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.24	1.65	E	-	0.203
B	3.99	4.60	F	4.80	5.28
C	2.40	2.90	G	0.76	1.52
D	1.90	2.44	H	0.15	0.305

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
		SMF 201A	SMF 202A	SMF 203A	SMF 204A	SMF 205A	SMF 206A	SMF 207A	
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	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current, 375"(9.5mm) Lead Length at $T_A=55^\circ C$	I_F	2							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage @ 2A	V_F	1.3			1.5	1.7		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_J=25^\circ C$	5							μA
	$T_J=125^\circ C$	200							
Maximum Reverse Recovery Time ¹	T_{RR}	150			250	500		nS	
Typical Thermal Resistance	$R_{\theta JL}$	30							$^\circ C/W$
	$R_{\theta JC}$	35							
Typical Junction Capacitance ²	C_J	50							pF
Operating & Storage Temperature	T_J, T_{STG}	-55~150							$^\circ C$

Notes:

1. Reverse Recovery Time test condition : $I_F=0.5A, I_R=1A, I_{RR}=0.25A$
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CHARACTERISTICS

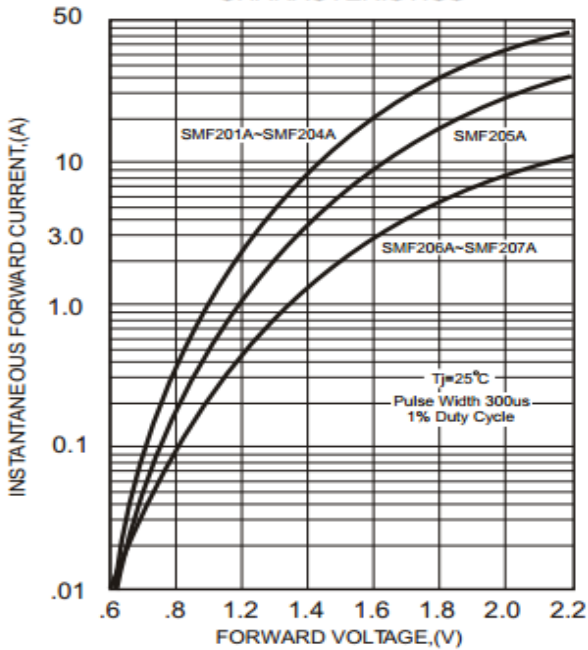


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

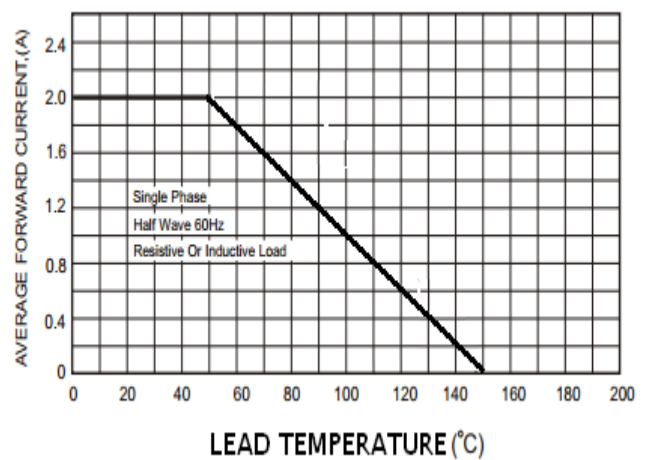
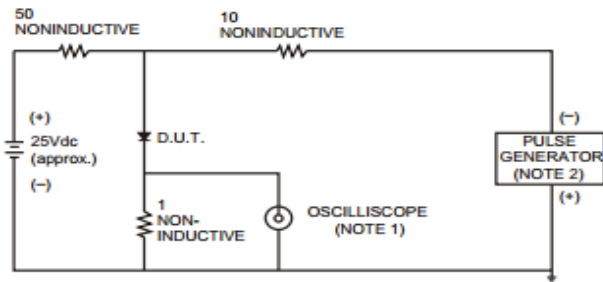


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF.
2. Rise Time= 10ns max., Source Impedance= 50 ohms.

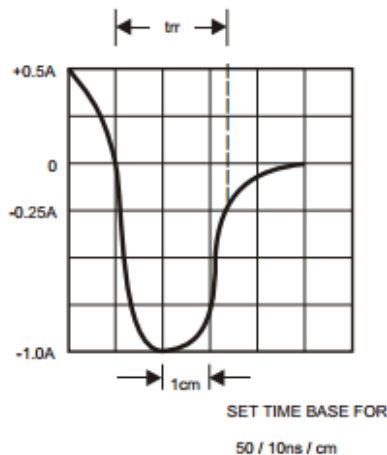


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

