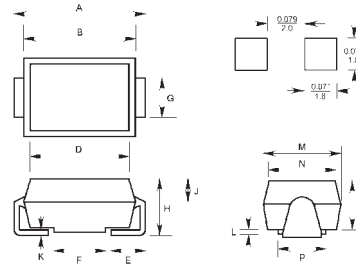


Features

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Fast recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High temperature soldering: 260°C/10 seconds at terminals

SMA



Mechanical Data

- **Case:** SMA molded plastic
- **Terminals:** Solder plated solderable per MIL-STD-750, method 2026
- **Polarity:** Indicated by cathode band
- **Weight:** 0.004 ounce, 0.113 gram

DIM	DIMENSIONS				Note
	Inches		mm		
A	0.216	0.226	5.48	5.74	
B	0.176	0.182	4.48	4.63	
C	0.094	0.100	2.40	2.55	
D	0.170	0.176	4.33	4.48	
E	0.039	0.055	1.00	1.40	
F	0.060	0.081	2.03	2.07	
G	0.068	0.083	1.72	2.10	
H	0.112	0.118	2.85	3.00	
J	0.057	-	1.44	-	
K	-	0.018	-	0.45	
L	0.016	-	0.40	-	
M	0.109	0.115	2.77	2.93	
N	0.105	0.107	2.67	2.73	
P	0.078	0.081	2.00	2.05	

Maximum Ratings and Electrical Characteristics @25°C unless otherwise specified

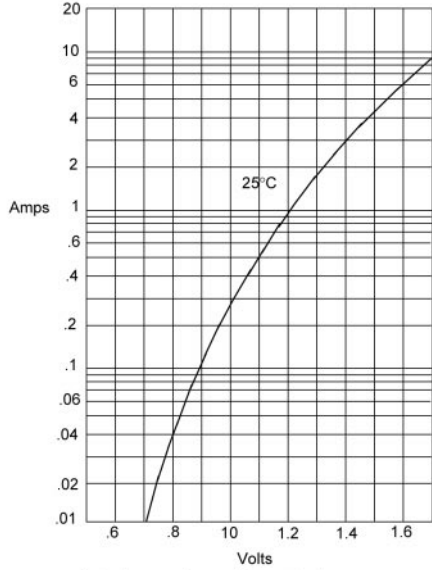
	Symbols	SRA7	SRA8	SRA9	Units
Maximum repetitive peak reverse voltage	V_{RRM}	400	600	1000	Volts
Maximum RMS voltage	V_{RMS}	280	420	700	Volts
Maximum DC blocking voltage	V_{DC}	400	600	1000	Volts
Average forward current at $T_J=90^\circ\text{C}$	$I_{(AV)}$	1.0			Amp
Peak forward surge current 8.3mS single half sine-wave	I_{FSM}	30.0			Amps
Maximum instantaneous forward voltage at $I_{FM}=1.0\text{A}$; $T_J=25^\circ\text{C}$ (Note 1)	V_F	1.3			Volts
Maximum DC reverse current at rated DC blocking voltage $T_J=25^\circ\text{C}$ / $T_J=125^\circ\text{C}$	I_R	5.0 / 200.0			μA
Maximum reverse recovery time (Note 2)	T_{rr}	150		250	nS
Typical junction capacitance (Note 3)	C_J	50.0			pF
Maximum thermal resistance	$R_{\theta JL}$	15			$^\circ\text{C}/\text{W}$
Operating and Storage temperature range	T_J, T_{STG}	-50 to +150			$^\circ\text{C}$

Notes:

- (1) Pulse test: Pulse width 300uSec, Duty cycle 1%
- (2) Reverse recovery test conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{rr}=0.25\text{A}$
- (3) Measured at 1.0MHz and applied reverse voltage of 4.0 volts

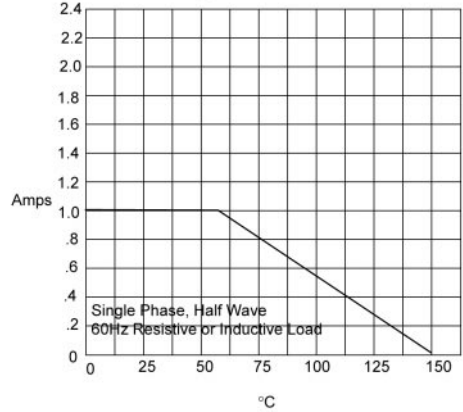
RATINGS AND CHARACTERISTIC CURVES

Figure 1
Typical Forward Characteristics



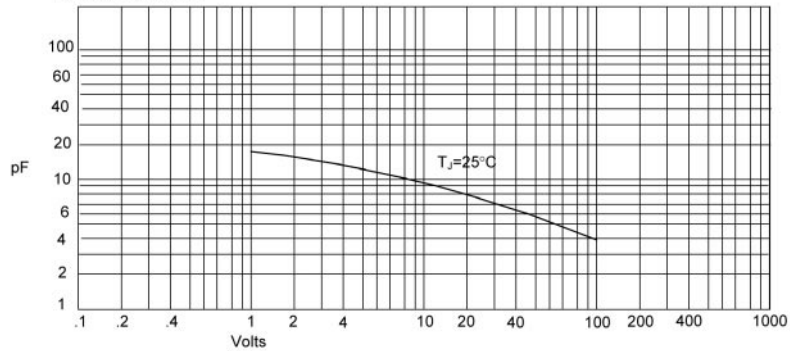
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



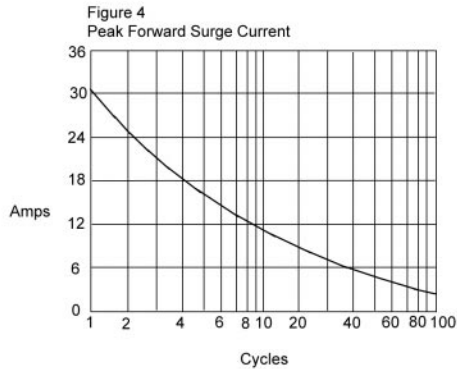
Average Forward Rectified Current - Amperes *versus*
Ambient Temperature - °C

Figure 3
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

RATINGS AND CHARACTERISTIC CURVES



Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles

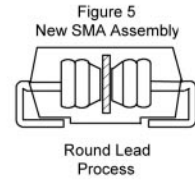
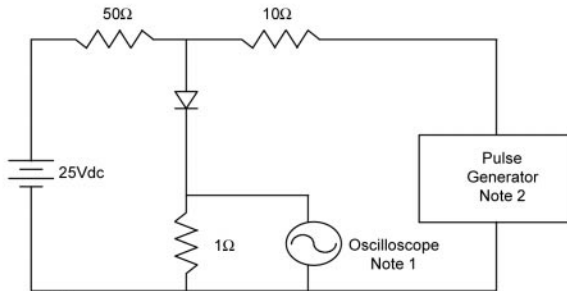


Figure 6
Reverse Recovery Time Characteristic And Test Circuit Diagram



- Notes:
1. Rise Time = 7ns max.
Input impedance = 1 megohm, 22pF
 2. Rise Time = 10ns max.
Source impedance = 50 ohms
 3. Resistors are non-inductive

