



Micro Commercial Components



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**SRA251GP
THRU
SRA257GP**

Features

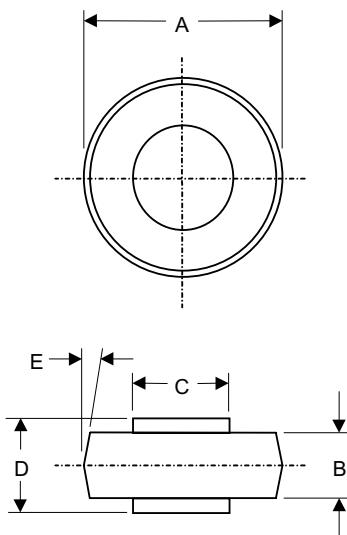
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Glass Passivated Chip
- Low Leakage, Low Cost
- Low Forward Voltage Drop
- High Current Capability
- For Automotive Applications
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SRA251GP	---	50V	35V	50V
SRA252GP	---	100V	70V	100V
SRA253GP	---	200V	140V	200V
SRA254GP	---	400V	280V	400V
SRA255GP	---	600V	420V	600V
SRA256GP	---	800V	560V	800V
SRA257GP	---	1000V	700V	1000V

**25Amp Glass
Passivated Rectifier
50 to 1000 Volts**

SRA



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	25A	$T_c = 125^\circ C$
Peak Forward Surge Current	I_{FSM}	400A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.1V	$I_{FM} = 25A$; $T_J = 25^\circ C$ *
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	25 μA 250 μA	$T_J = 25^\circ C$ $T_J = 100^\circ C$
Typical Junction Capacitance	C_J	300pF	Measured at 1.0MHz, $V_R=4.0V$

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

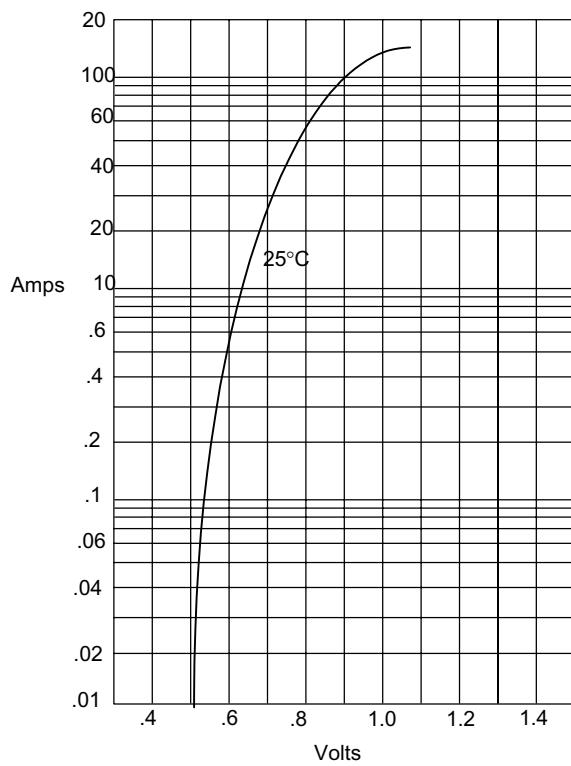
DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.332	.342	8.43	8.69	
B	.165	.175	4.19	4.45	
C	.218	.222	5.54	5.64	
D	.234	.246	5.94	6.25	
E	----	5'	---	5'	

SRA251GP thru SRA257GP

M·C·C

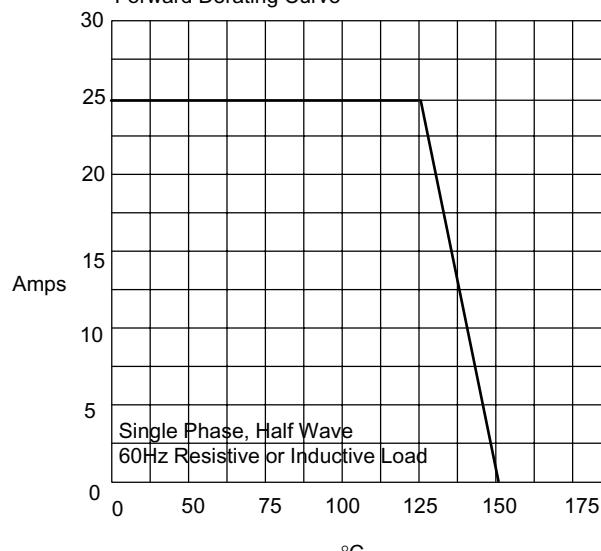
TM

Figure 1
Typical Forward Characteristics



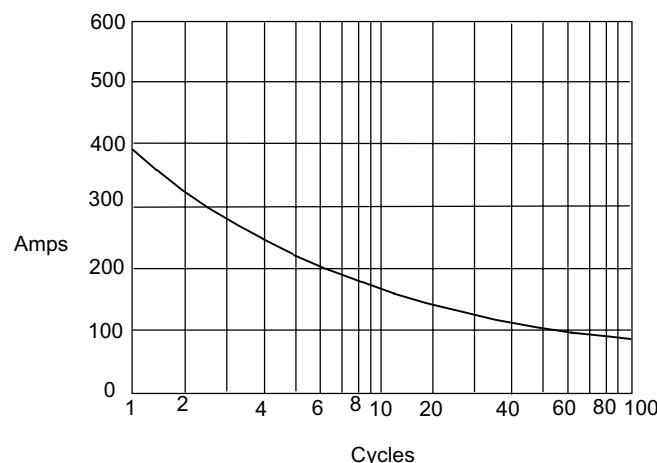
Instantaneous Forward Current - Amperesversus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



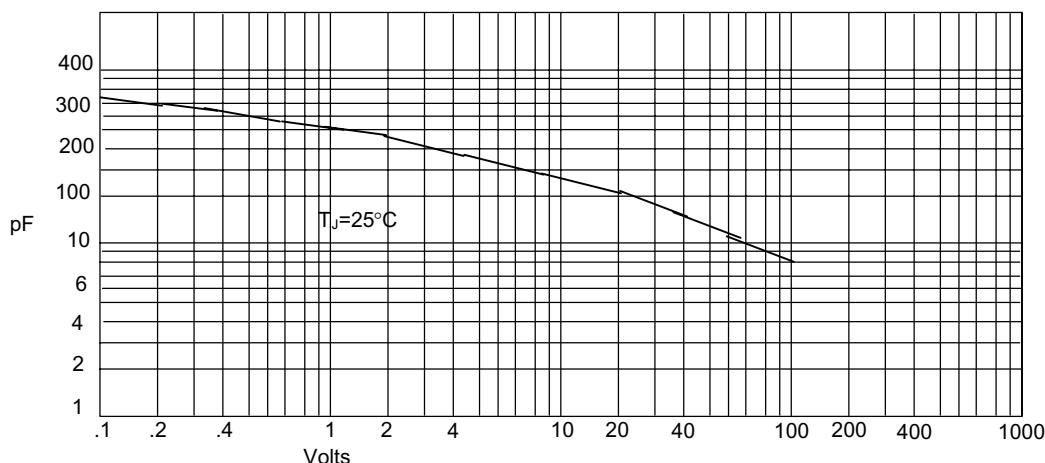
Average Forward Rectified Current - Amperesversus
Case Temperature - °C

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperesversus
Number Of Cycles At 60Hz - Cycles

Figure 3
Junction Capacitance



Junction Capacitance - pFversus
Reverse Voltage - Volts

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Ordering Information :

Device	Packing
Part Number-BP	Bulk: 1 Kpcs/Box

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