



Micro Commercial Components



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## 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

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SRA351GP	---	50V	35V	50V
SRA352GP	---	100V	70V	100V
SRA353GP	---	200V	140V	200V
SRA354GP	---	400V	280V	400V
SRA355GP	---	600V	420V	600V
SRA356GP	---	800V	560V	800V
SRA357GP	---	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

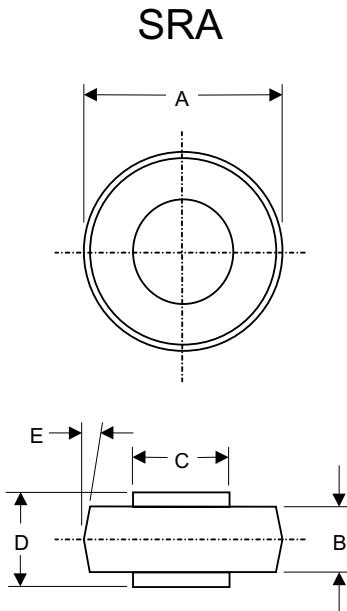
Average Forward Current	$I_{F(AV)}$	35A	$T_c = 125^\circ C$
Peak Forward Surge Current	$I_{FSM}$	500A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.0V	$I_{FM} = 35A$ ; $T_J = 25^\circ C$ *
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	$10 \mu A$ $150 \mu A$	$T_J = 25^\circ C$ $T_J = 100^\circ C$
Typical Junction Capacitance	$C_J$	300pF	Measured at 1.0MHz, $V_R=4.0V$

\*Pulse test: Pulse width 300  $\mu$ sec, Duty cycle 2%

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

**SRA351GP  
THRU  
SRA357GP**

**35Amp Glass  
Passivated Rectifier  
50 to 1000 Volts**



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'	

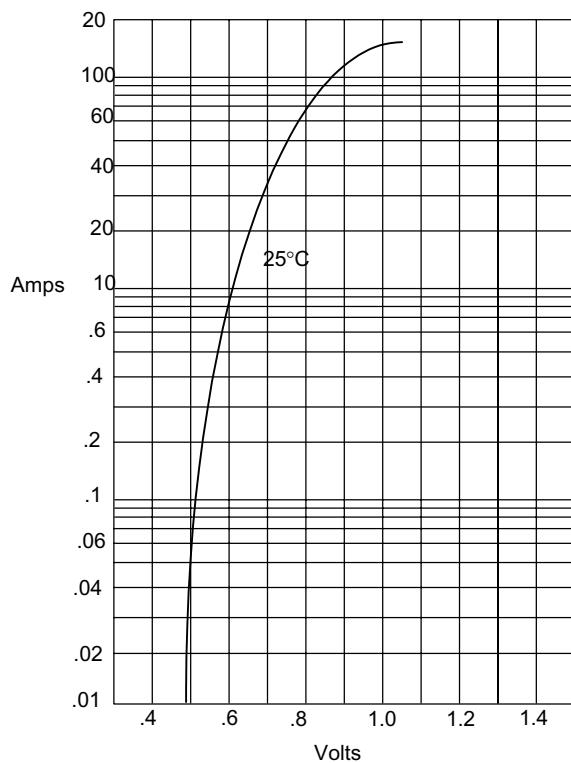
**www.mccsemi.com**

# SRA351GP thru SRA357GP

**M·C·C**

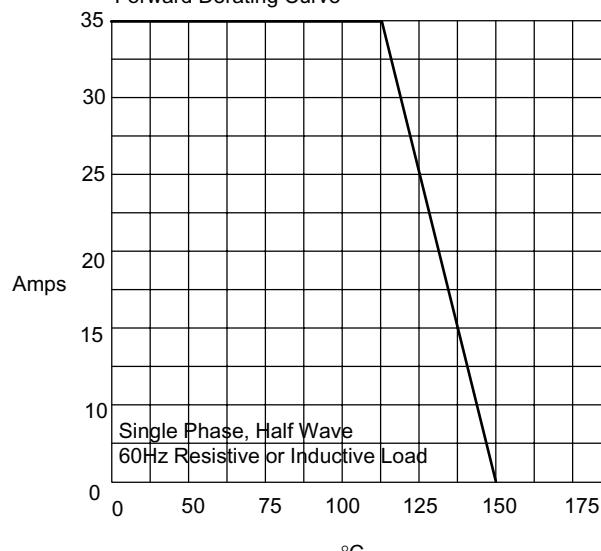
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Figure 1  
Typical Forward Characteristics



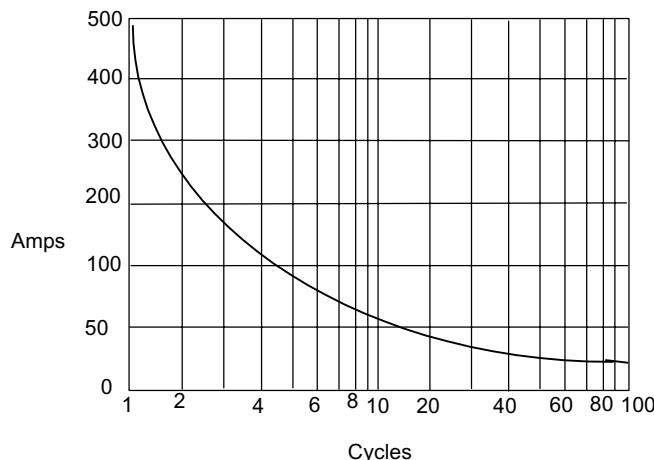
Instantaneous Forward Current - Amperesversus  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



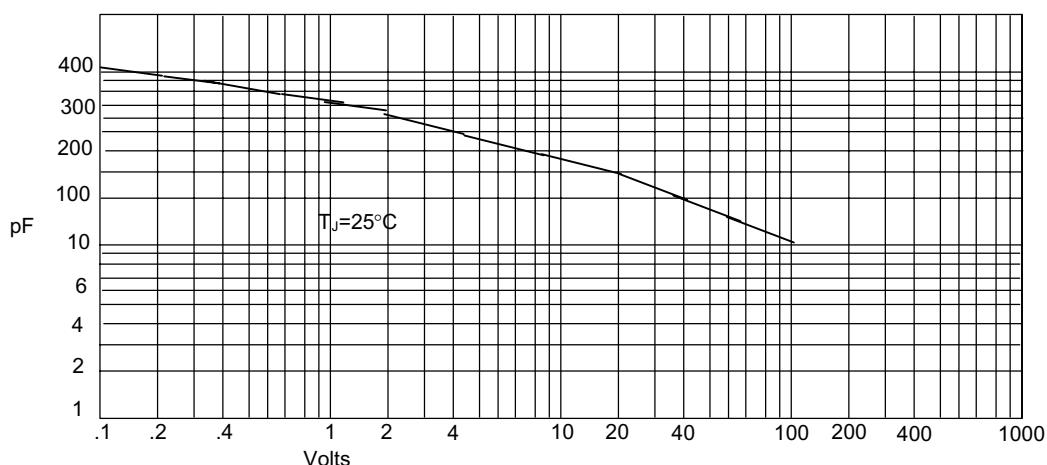
Average Forward Rectified Current - Amperesversus  
Case Temperature - °C

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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**Micro Commercial Components****Ordering Information :**

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

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