

M·C·C·

Micro Commercial Components



Micro Commercial Components
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Features

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Low Cost
- Low Leakage
- 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
SRA501	---	50V	35V	50V
SRA502	---	100V	70V	100V
SRA503	---	200V	140V	200V
SRA504	---	400V	280V	400V
SRA505	---	600V	420V	600V
SRA506	---	800V	560V	800V
SRA507	---	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

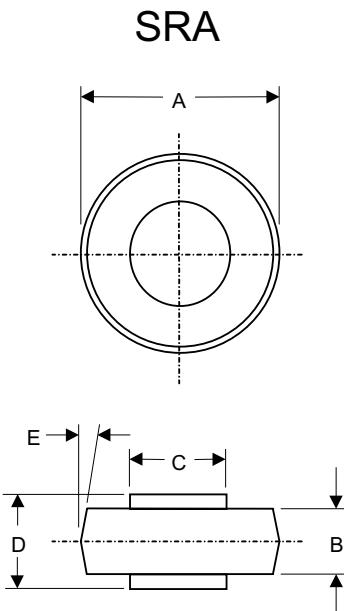
Average Forward Current	$I_{F(AV)}$	50A	$T_c = 125^\circ C$
Peak Forward Surge Current	I_{FSM}	500A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.0V	$I_{FM} = 50A$; $T_J = 25^\circ C$ *
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	$10 \mu A$ $250 \mu A$	$T_J = 25^\circ C$ $T_J = 55^\circ C$
Typical Junction Capacitance	C_J	100pF	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.

**SRA501
THRU
SRA507**

**50Amp Standard
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'	

Figure 1
Typical Forward Characteristics

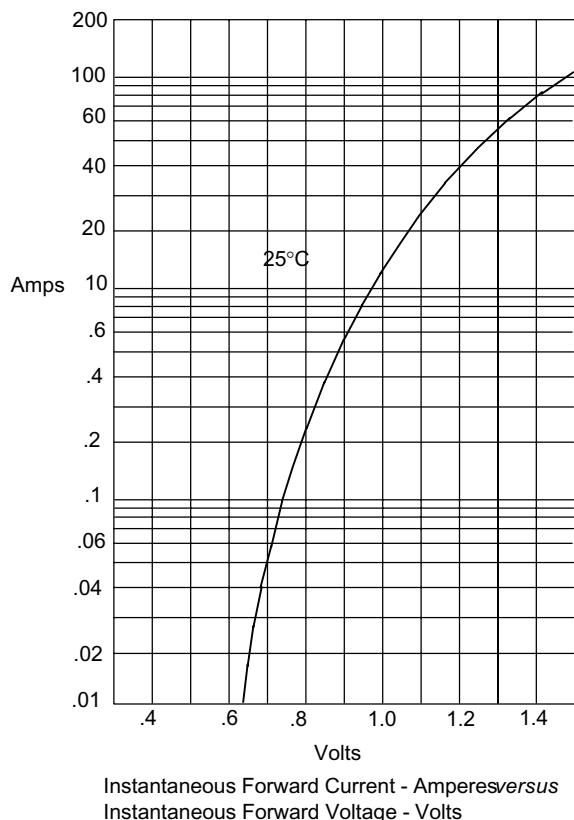
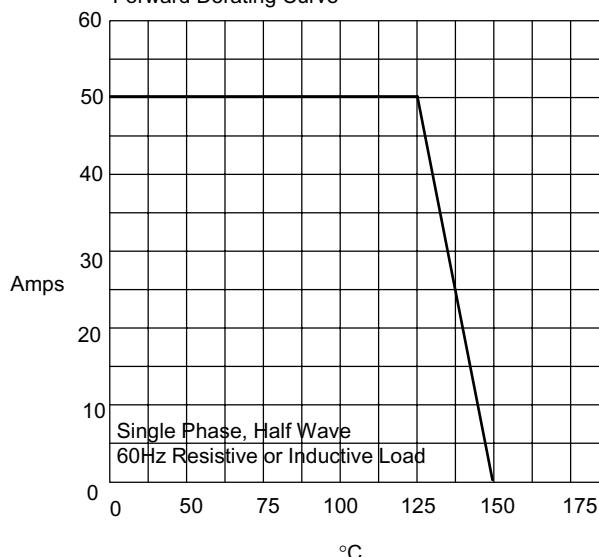


Figure 2
Forward Derating Curve



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Figure 4
Peak Forward Surge Current

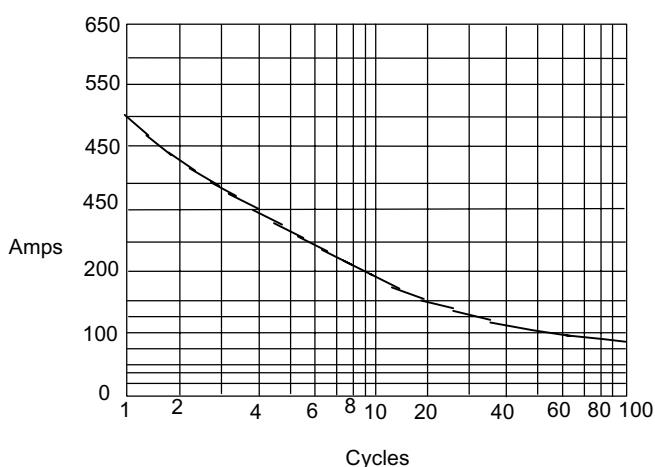
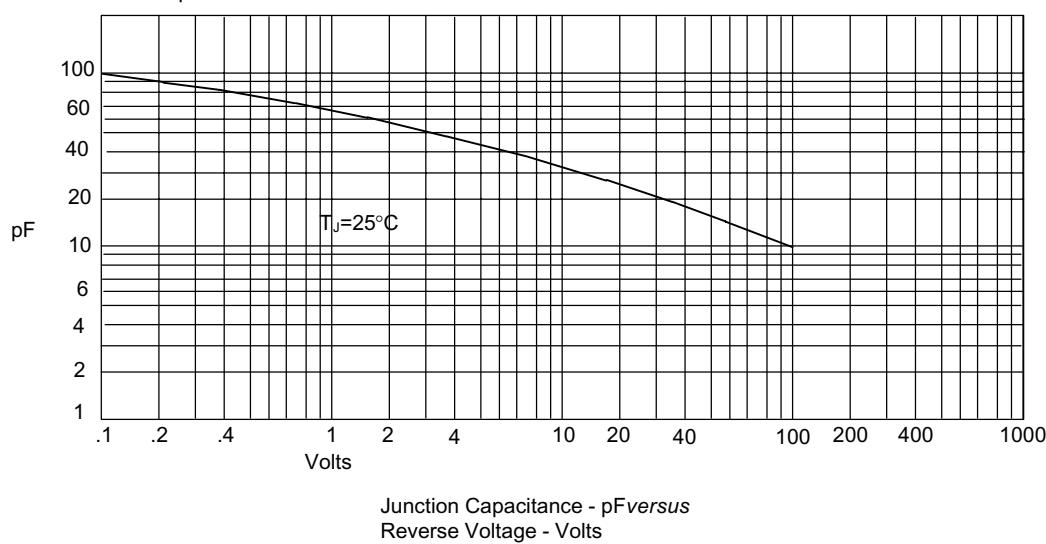


Figure 3
Junction Capacitance





TM

Micro Commercial Components**Ordering Information :**

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

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