

M·C·C·

Micro Commercial Components

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Features

- Lead Free Finish/RoHS Compliant (Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Glass Passivated Chip
- Low Leakage, Low cost
- Low Forward Voltage Drop
- High Current Capability
- For Automotive Applications

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
RA351GP	---	50V	35V	50V
RA352GP	---	100V	70V	100V
RA353GP	---	200V	140V	200V
RA354GP	---	400V	280V	400V
RA355GP	---	600V	420V	600V
RA356GP	---	800V	560V	800V
RA357GP	---	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

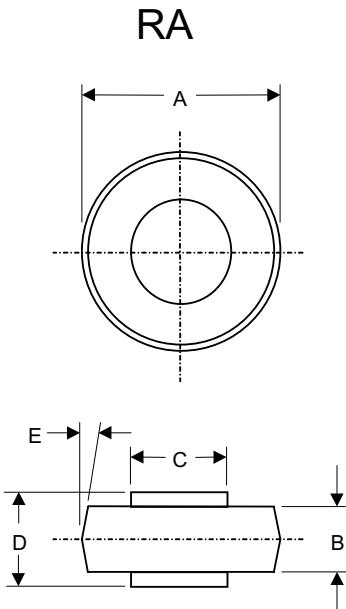
Average Forward Current	$I_{F(AV)}$	35A	$T_c = 125^\circ C$
Peak Forward Surge Current	I_{FSM}	500A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.0V	$I_{FM} = 35A$; $T_J = 25^\circ C$ *
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	$5.0 \mu A$ $150 \mu A$	$T_J = 25^\circ C$ $T_J = 100^\circ C$
Typical Junction Capacitance	C_J	100pF	Measured at 1.0MHz, $V_R=4.0V$

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

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

**RA351GP
THRU
RA357GP**

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



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.380	.410	9.70	10.40	
B	.165	.185	4.20	4.70	
C	.215	.220	5.50	5.70	
D	.234	.250	6.00	6.40	
E	---	5'	---	5'	

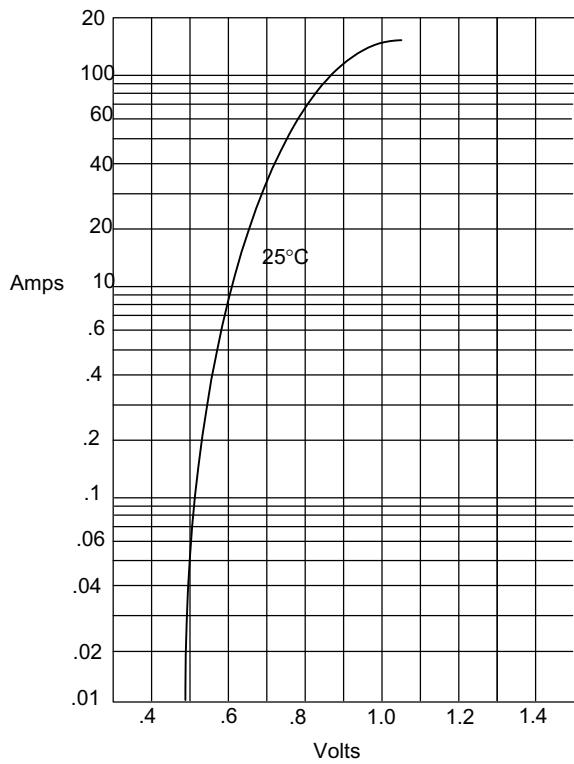
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RA351GP thru RA357GP

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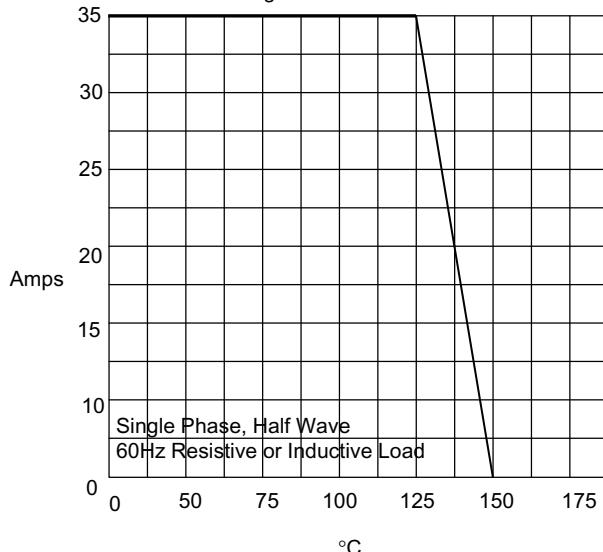
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Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperesversus
Instantaneous Forward Voltage - Volts

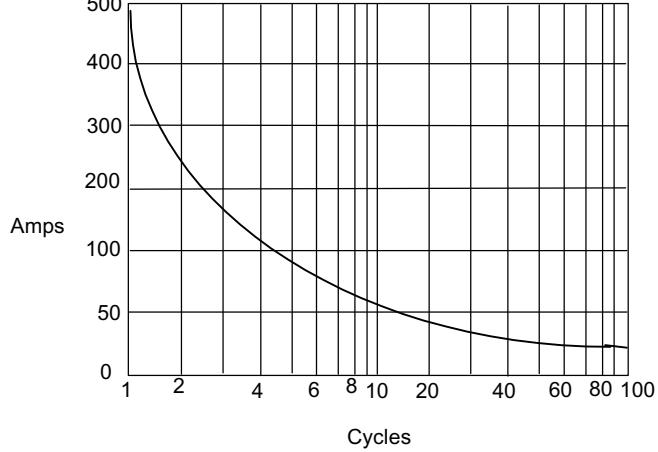
Figure 2
Forward Derating Curve



Single Phase, Half Wave
60Hz Resistive or Inductive Load

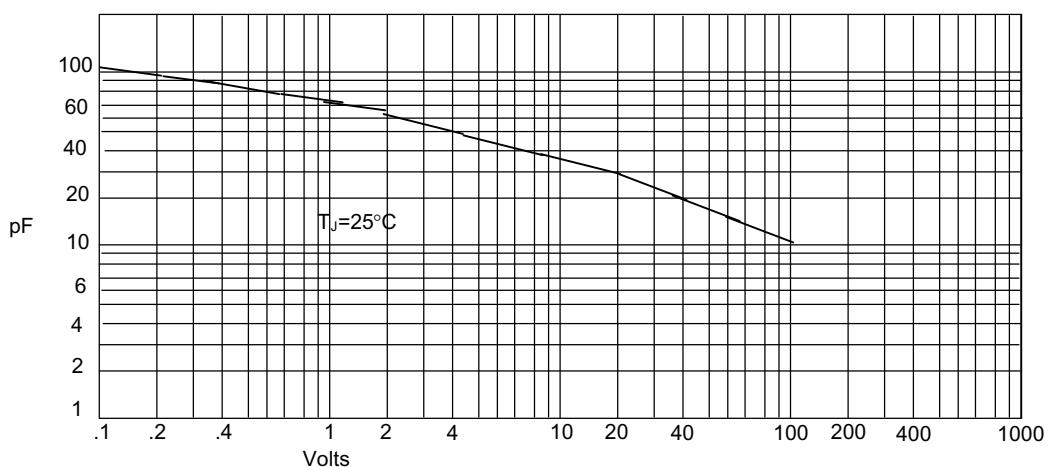
Average Forward Rectified Current - Amperesversus Case Temperature - °C

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;1Kpcs/Box

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