

**Micro Commercial Components** 

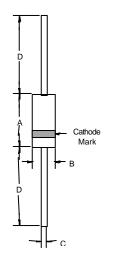
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# RGP20A **THRU** RGP20M

2.0 Amp Glass **Passivated Junction Fast Recovery Rectifiers** 50 to 1000 Volts

#### **DO-201AE**



DIMENSIONS							
DIWENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α		.370		9.50			
В		.250		6.40			
С	.038	.042	0.96	1.06			
D	1.000		25.40				

### Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- High temperature metallurgically bonded construction
- Glass passivated cavity-free junction
- 2.0 amperes operation at T<sub>A</sub>=55<sup>O</sup>C and with no
- thermal runaway. Typical IR less than 0.2uA Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

## Maximum Ratings

- Operating Temperature: -55°C to +150°C Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance: 22°C/W Junction to Ambient

MCC Part Number	Maximum Recurrent Peak Reverse Volt age	Maximum RMS Voltage	Maximum DC Blocking Voltage
RGP20A	50V	35V	50V
RGP20B	100V	70V	100V
RGP20D	200V	140V	200V
RGP20G	400V	280V	400V
RGP20J	600V	420V	600V
RGP20K	800V	560V	V008
RGP20M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

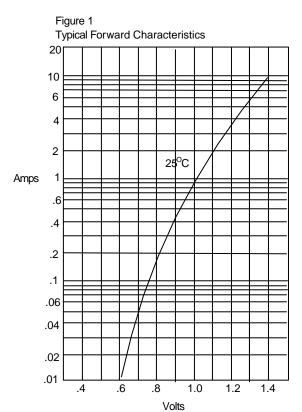
lectifical characteristics @ 25 c offices office wise specified					
Maximum Average	I <sub>F(AV)</sub>	2.0 A	$T_A = 55^{\circ}C$		
Forward Current	,				
Peak Forward Surge	I <sub>FSM</sub>	80A	8.3ms, half sine		
Current					
Maximum					
Instantaneous	$V_{F}$	1.3V	$I_{FM} = 2.0A;$		
Forward Voltage			$T_A=25^{\circ}C$		
Maximum DC					
Reverse Current At	$I_R$	5.0uA	$T_A=25^{\circ}C$		
Rated DC Blocking		200uA	T <sub>A</sub> =125°C		
Voltage					
Maximum Reverse					
Recovery Time					
RGP20A-20G	$T_{rr}$	150nS	l=0.5A, l <sub>R</sub> =1.0A,		
RGP20J		250nS	$I_{rr}=0.25A$		
RGP20K-20M		500nS			
Typical Junction	$\mathbf{C}_{J}$	35pF	Measured at		
Capacitance			f=1.0MH <sub>Z</sub>		
			$V_R=4.0V$		

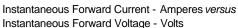
Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

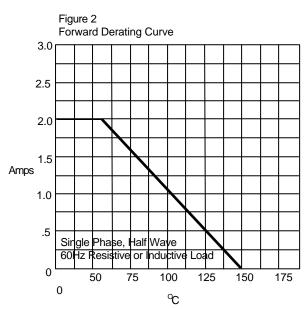
## RGP20A thru RGP20M



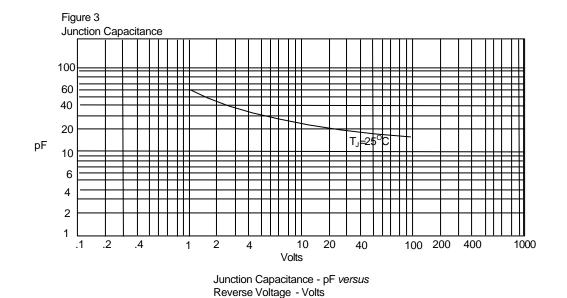
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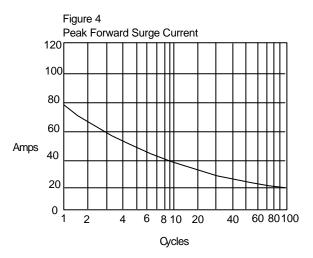


Average Forward Rectified Current - Amperes versus Ambient Temperature -  $^{\circ}\text{C}$ 



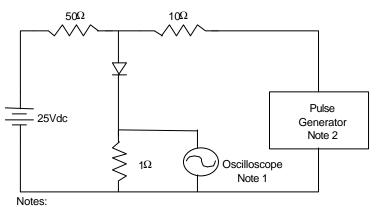
### RGP20A thru RGP20M

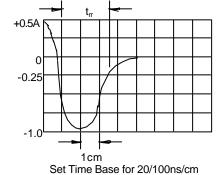




Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles

Figure 5
Reverse Recovery Time Characteristic And Test Circuit Diagram





1. Rise Time = 7ns max.

Input impedance = 1 megohm, 22pF

2. Rise Time = 10ns max.

Source impedance = 50 ohms

3. Resistors are non-inductive



### **Ordering Information**

Device	Packing	
(Part Number)-TP	Tape&Reel 1.2Kpcs/Reel	

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