

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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RGP30A **THRU** RGP30M

Features

- High temperature metallurgically bonded construction
- Glass passivated cavity-free junction
- 3.0 amperes operation at $T_A=55^{\circ}C$ and with no thermal runaway. Typical IR less than 0.2uA
- Fast switching for high efficiency Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance: 25°C/W Junction to Ambient

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RGP30A	50V	35V	50V
RGP30B	100V	70V	100V
RGP30D	200V	140V	200V
RGP30G	400V	280V	400V
RGP30J	600V	420V	600V
RGP30K	800V	560V	800V
RGP30M	1000V	700V	1000V

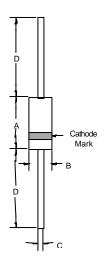
Electrical Characteristics @ 25°C Unless Otherwise Specified

reduction or a reduction of the section of the sect					
Maximum Average Forward Current	I _{F(AV)}	3.0 A	$T_A = 55^{\circ}C$		
Peak Forward Surge	I _{FSM}	125A	8.3ms, half sine		
Current					
Maximum					
Instantaneous	V_{F}	1.3V	l _{FM} = 3.0A;		
Forward Voltage					
Maximum DC					
Reverse Current At	I_R	5.0uA	$T_A=25^{\circ}C$		
Rated DC Blocking		100uA	$T_A=150^{\circ}C$		
Voltage					
Maximum Reverse					
Recovery Time			$T_J = 25^{\circ}C$		
RGP30A-30G	Trr	150nS	⊫0.5A		
RGP30J		250nS	I _R =1.0A		
RGP30K-30M		500nS	l _{RR} =0.25A		
Typical Junction	C	60pF	Measured at		
Capacitance			1.0MHz, V_R =4.0V		

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

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

DO-201AD

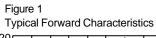


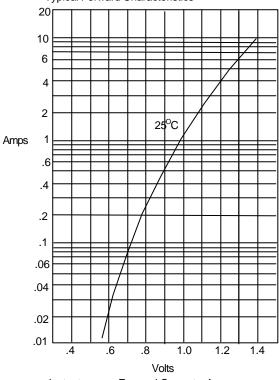
DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.287	.374	7.30	9.50		
В	.189	.208	4.80	5.30		
С	.048	.052	1.20	1.30		
D	1 000		25 40			

RGP30A thru RGP30M

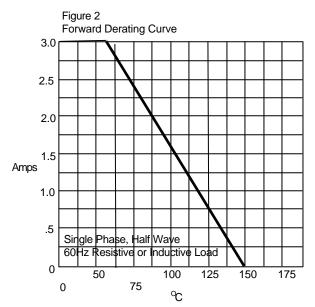


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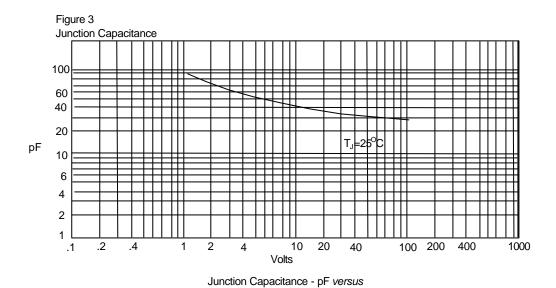




Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts



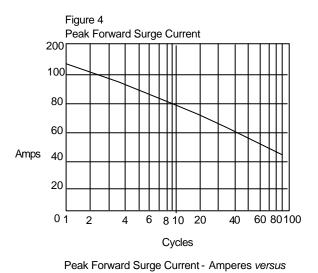
Average Forward Rectified Current - Amperes versus Ambient Temperature - $^{\rm O}{\rm C}$



Reverse Voltage - Volts

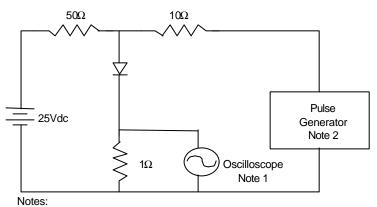
RGP30A thru RGP30M

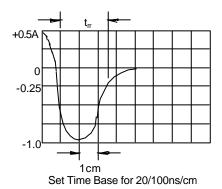




Number Of Cycles At 60Hz - Cycles

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



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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel 1.2Kpcs/Reel
(Part Number)-AP	Ammo Packing;1.2Kpcs/AmmoBox
(Part Number)-BP	Bulk;500pcs/Box

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