



Micro Commercial Components

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## GP30A THRU GP30M

### 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
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Typical  $I_R$  less than 0.1uA
- Marking : type number

### Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance: 20°C/W Junction to Lead

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GP30A	50V	35V	50V
GP30B	100V	70V	100V
GP30D	200V	140V	200V
GP30G	400V	280V	400V
GP30J	600V	420V	600V
GP30K	800V	560V	800V
GP30M	1000V	700V	1000V

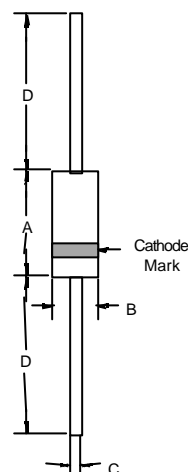
Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Average Forward Current	$I_{F(AV)}$	3.0 A	$T_A = 55^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	125A	8.3ms, half sine
Maximum Instantaneous Forward Voltage GP30A -30B GP30D-30M	$V_F$	1.2V 1.1V	$I_{FM} = 3.0A$ ;
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5.0uA 100uA	$T_A=25^\circ\text{C}$ $T_A=150^\circ\text{C}$
Typical Junction Capacitance	$C_J$	40pF	Measured at 1.0MHz, $V_R=4.0V$

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

## 3.0 Amp Glass Passivated Junction Rectifiers 50 to 1000 Volts

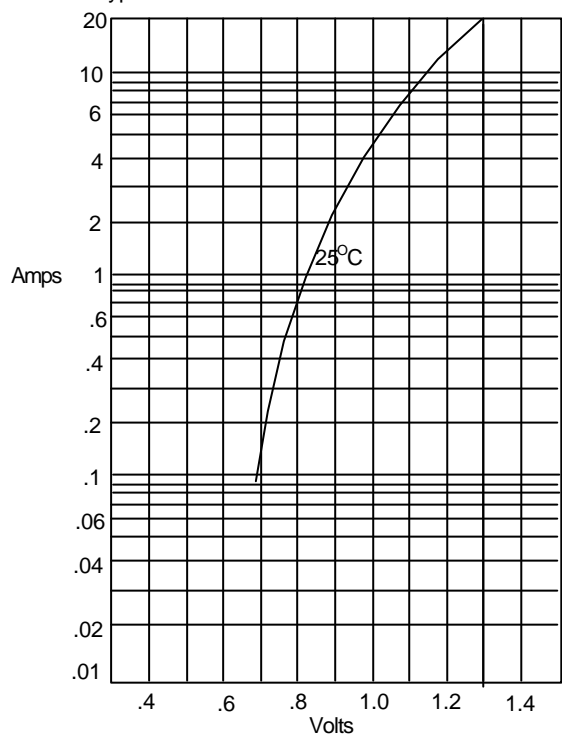
### DO-201AD



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.287	.374	7.30	9.50	
B	.189	.208	4.80	5.30	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

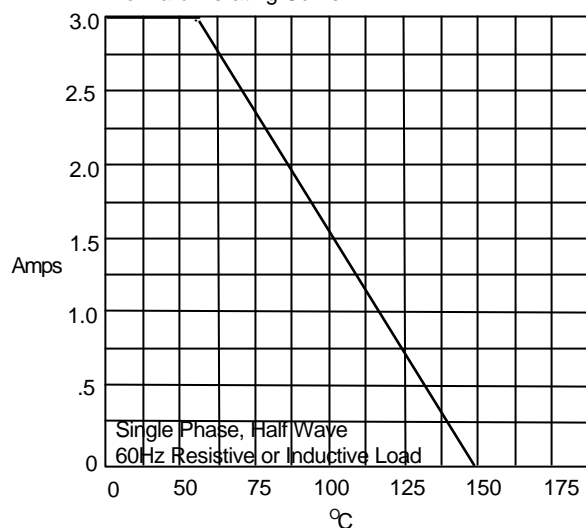
# GP30A thru GP30M

Figure 1  
Typical Forward Characteristics



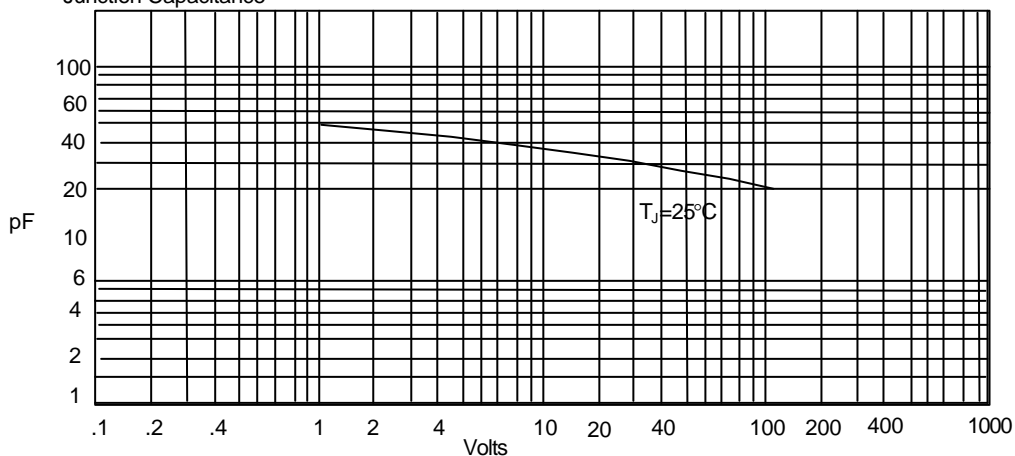
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



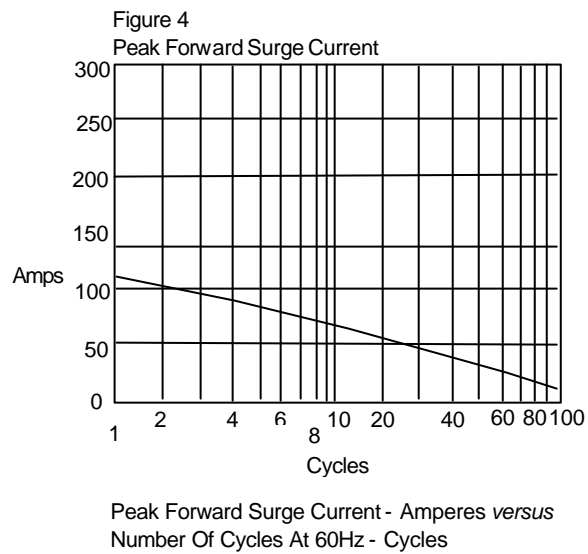
Average Forward Rectified Current - Amperes versus  
Ambient Temperature - °C

Figure 3  
Junction Capacitance



Junction Capacitance - pF versus  
Reverse Voltage - Volts

# GP30A thru GP30M





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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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