

Micro Commercial Components

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6A05G THRU 6A10G

6 Amp Glass Passivated Junction Rectifier 50 to 1000 Volts

Features

- High Surge Current Capability
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking : Cathode band and type number
- High Current Operation 6.0 Ampere @ T_A=75°C
- Glass Passivated Junction In R-6 Package
- · Low Leakage

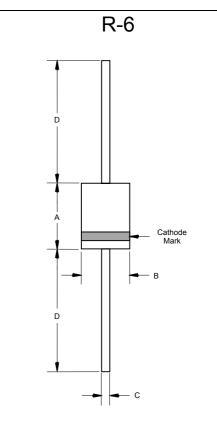
Maximum Ratings

- Operating Temperature: -55^oC to +150^oC
- Storage Temperature: -55°C to +175°C

	Maximum		Maximum DC
MCC	Recurrent	Maximum	Blocking
Part Number	Peak Reverse	RMS Voltage	Voltage
	Voltage		
6A05G	50V	35V	50V
6A1G	100V	70V	100V
6A2G	200V	140V	200V
6A4G	400V	280V	400V
6A6G	600V	420V	600V
6A8G	800V	560V	800V
6A10G	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

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Average Forward Current	I _{F(AV)}	6.0A	T _A =75°C	
Peak Forward Surge Current	I _{FSM}	400A	8.3ms, half sine	
Maximum Instantaneous Forward Voltage	V_{F}	1.0V	I _{FM} = 6.0A;	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ	T _J = 25°℃	
Typical Junction Capacitance	CJ	150pF	Measured at 1.0MHz, V _R =4.0V	
Typical Thermal Resistance	$R_{ hetaJA} \ R_{ hetaJL}$	20.0°C/W 4.0°C/W		

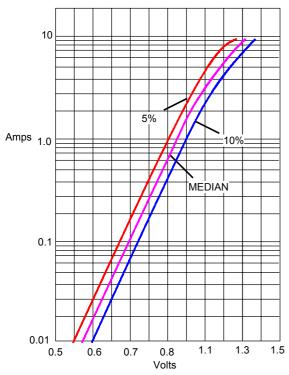


DIMENSIONS								
	INCHES		MM					
DIM	MIN	MAX	MIN	MAX	NOTE			
Α	.340	.360	8.60	9.10				
В	.340	.360	8.60	9.10				
С	.048	.052	1.20	1.30				
D	1.000		25.40					



6A05G tru 6A10G

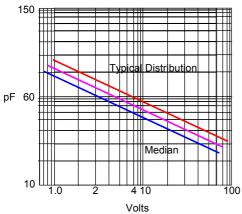
Figure 1 Typical Forward Characteristics



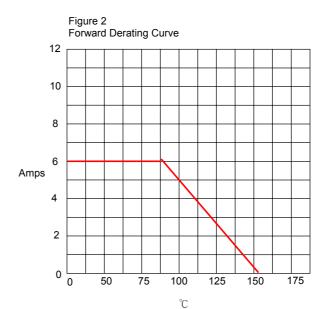
Maximum Forward Voltage -Volts Maximum Forward Current – Amperes Versus

mum Forward Current – Amperes Versus





Reverse Junction Pottential – Volts Junction Capacitance - pF

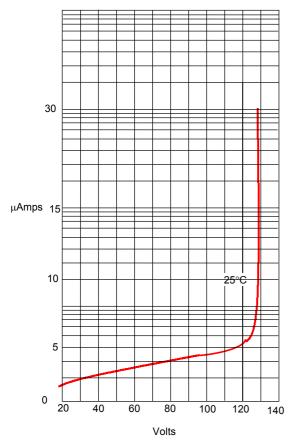


Average Forward Rectified Current - Amperes versus Ambient Temperature - $^{\circ}\text{C}$

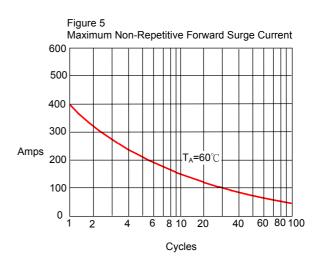


6A05G thru 6A10G

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes *versus* Percent Of Rated Peak Reverse Voltage - Volts



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



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