

Micro Commercial Components



Micro Commercal Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- High Surge Current Capability
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates
- RoHS Compliant. See ordering information)
- Marking : Cathode band and type number
- High Current Operation 6.0 Ampere @ $T_A=60^{\circ}C$
- Glass Passivated Junction In R-6 Package
- Low Leakage
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -55℃ to +150℃
- Storage Temperature: -55℃ to +150℃

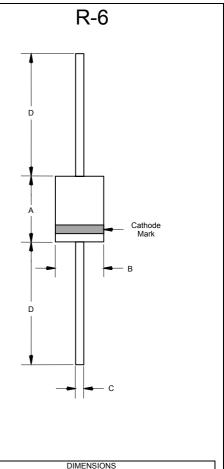
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
6A05G	50V	35V	50V
6A1G	100V	70V	100V
6A2G	200V	140V	200V
6A4G	400V	280V	400V
6A6G	600V	420V	600V
6A8G	800V	560V	800V
6A10G	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	6.0A	T _A =60°C
Peak Forward Surge Current	I _{FSM}	200A	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	100pF	Measured at 1.0MHz, V _R =4.0V



6 Amp Glass Passivated Junction Rectifier 50 to 1000 Volts



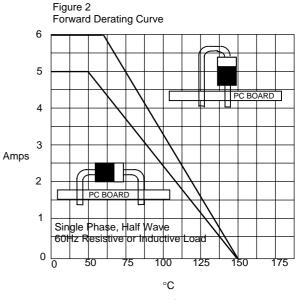
Billertelette						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
А	.340	.360	8.60	9.10		
В	.340	.360	8.60	9.10		
С	.048	.052	1.20	1.30		
D	1.000		25.40			

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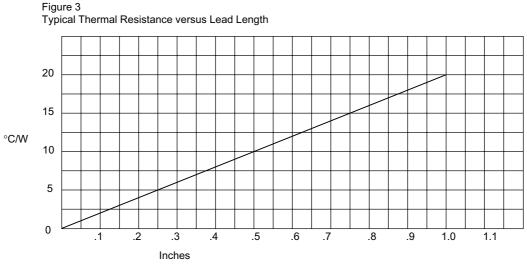
6A05G thru 6A10G



Figure 1 Typical Forward Characteristics 100 60 40 20 Amps 10 6 4 2 5°C 1 .6 .4 .2 .1 .6 .8 1.0 1.2 1.4 1.6 Volts



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



Thermal Resistance -°C/W *versus* Equal Lead Length To Heat Sink - Inches

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Revision: A

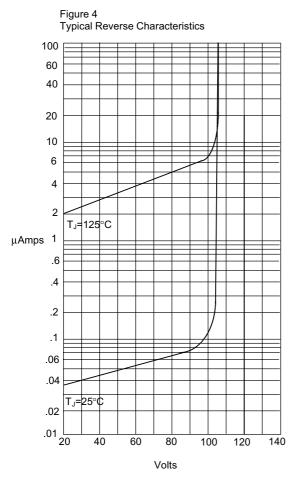
2 of 4

Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

6A05G thru 6A10G



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Maximum Non-Repetitive Forward Surge Current 300 250 200 150 Amps 100 50 0 1 2 4 6 8 10 20 40 60 80 100 Cycles

Figure 5

Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts

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Ordering Information

Device	Packing	
(Part Number)-TP	Tape&Reel 500pcs/Reel	
(Part Number)-AP	Ammo Packing;450pcs/AmmoBox	
(Part Number)-BP	Bulk;200pcs/Box	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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