

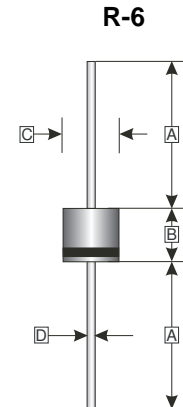
RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Low Forward Voltage Drop
- Low Reverse Leakage
- High Forward Surge Current Capability
- The Plastic Material Carries UL Recognition 94V-0

## MECHANICAL DATA

- Case: JEDEC R-6 molded plastic
- Polarity: Color band denotes cathode end
- Mounting position: Any



## ORDER INFORMATION

Part Number	Type
P6A05G~P6A10G	Lead (Pb)-free
P6A05G-C~P6A10G-C	Lead (Pb)-free and Halogen-free

REF.	Millimeter	
	Min.	Max.
A	25.4 REF	
B	8.6	9.1
C	8.6	9.1
D	1.2	1.32

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, de-rate current by 20%)

Parameter	Symbol	Part Number							Unit
		P6A05G	P6A1G	P6A2G	P6A4G	P6A6G	P6A8G	P6A10G	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	$I_{(AV)}$	6							A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	400							A
Maximum Forward Voltage @ $I_F=6A$	$V_F$	1.1		1					V
Maximum DC Reverse Current at rated DC blocking voltage	$T_A=25^\circ C$	10							$\mu A$
	$T_A=125^\circ C$	100							
Typical Junction Capacitance <sup>1</sup>	$C_J$	100							pF
Operating and Storage Temperature Range	$T_J, T_{STG}$	150,-55~150							°C

Note:

1. Measured at 1.0MHz and applied reverse voltage of 4.0Volts.

**RATINGS AND CHARACTERISTIC CURVES**

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

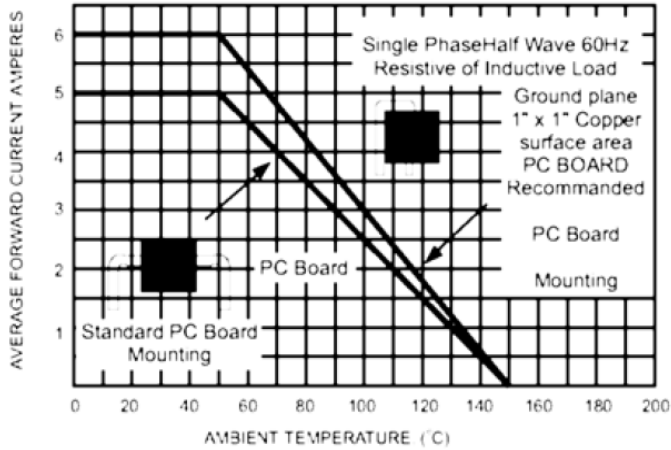


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

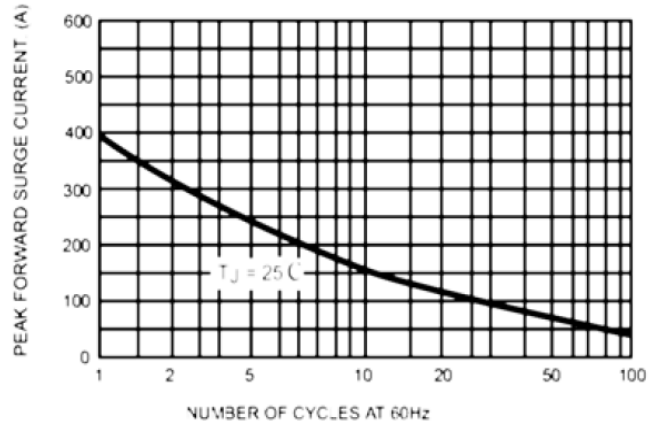


FIG.3- TYPICAL FORWARD CHARACTERISTICS

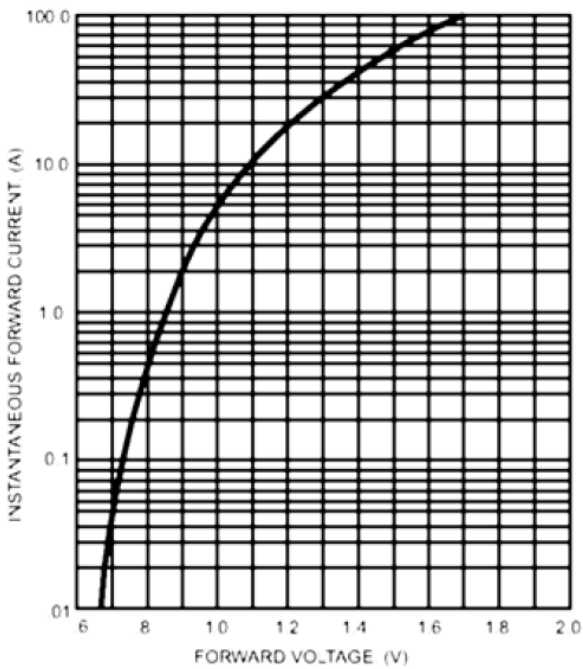


FIG.4- TYPICAL JUNCTION CAPACITANCE

