

6A05G thru 6A10G

Glass Passivated Junction Rectifiers Reverse Voltage 50 to 1000 Volts Forward Current 6.0 Amperes

Features

- ◆ Low forward voltage drop
- ♦ High current capability
- High reliability
- ♦ High surge current capability



R-6 or P600

6A4G

100

-55 to +150

-55 to +150

Mechanical Data

- ◆ Case: Molded plastic R-6
- ◆ Epoxy: UL 94V-O rate flame retardant
- ◆ Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- ◆ Polarity: Color band denotes cathode end
- High temperature soldering guaranteed: 250°C/10 seconds .375" (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ◆ Weight: 0.074 ounce, 2.105 grams

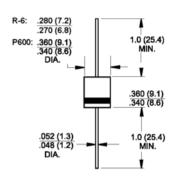
For capacitive load, derate current by 20%

Typical junction capacitance (Note 1)

Operating junction temperature range

Storage temperature range

Parameter



Dimensions in inches and (millimeters)

6A8G

6A10G

Units

pF

٥С

٥С

6A6G

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

100 400 600 800 1000 Volts Maximum repetitive peak reverse voltage 50 200 V_{RRM} Maximum RMS voltage 35 70 140 280 420 560 700 Volts $V_{\rm RMS}$ Maximum DC blocking voltage 50 100 200 400 600 800 1000 V_{DC} Volts Maximum average forward rectified current 6.0 I_(AV) Amps 0.375" (9.5mm) lead length @T₄=50°C Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load 400.0 Amps (JEDEC Method) Maximum instantaneous forward voltage @ 6.0A ٧_۶ 1.1 1.0 Volts Maximum DC reverse current @T_A=25°C @T_A=125°C 10.0 I_R uΑ at rated DC blocking voltage 100

6A05G

6A1G

6A2G

Symbols

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 $T_{\rm STG}$

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

RATINGS AND CHARACTERISTIC CURVES

(T_A = 25°C unless otherwise noted)

FIG.1- MAXIMUM FORWARD CURRENT DERATING AVERAGE FORWARD CURRENT AMPERES Single PhaseHalf Wave 60Hz Resistive of Inductive Load Ground plane x 1" Copper surface area PC BOARD Recommanded PC Board Standard PC Board Mounting 0 60 80 100 120 140 160 180 200

FIG.2-MAXIUM NON-REPETITIVE FORWARD SURGE CURRENT

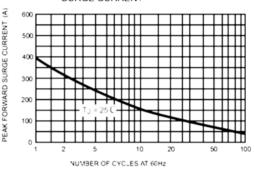


FIG.3- TYPICAL FORWARD CHARACTERISTICS

AMBIENT TEMPERATURE. (°C)

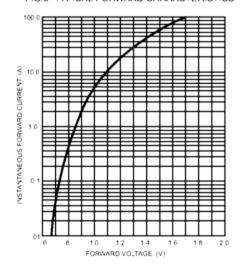


FIG.4- TYPICAL JUNCTION CAPACITANCE

