

6A05G THRU 6A10G

GLASS PASSIVATED SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current – 6.0 Amperes

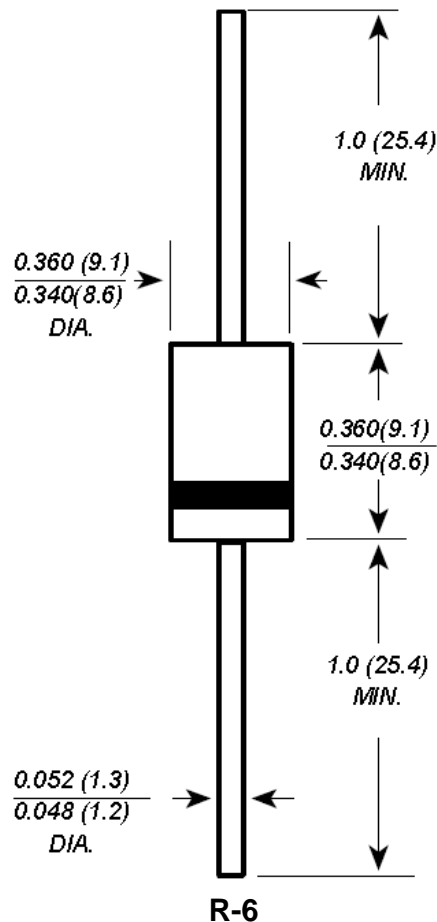
FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C /10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

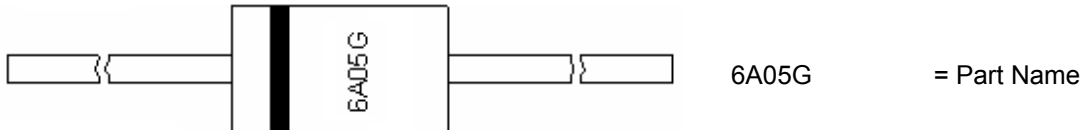
MECHANICAL DATA

- Case: R-6 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.072 ounce, 2.05 grams

MECHANICAL DIMENSIONS: In Inches/mm



MARKING DIAGRAM



Cautions: Molding resin
Epoxy resin UL:94V-0

ORDERING INFORMATION

| Device | Package | Shipping |
|-------------|------------------|---------------|
| 6A05G-6A10G | R-6 (Pb-Free) | 500pcs / reel |

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

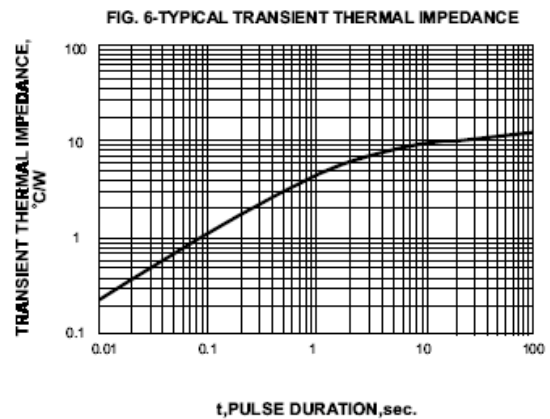
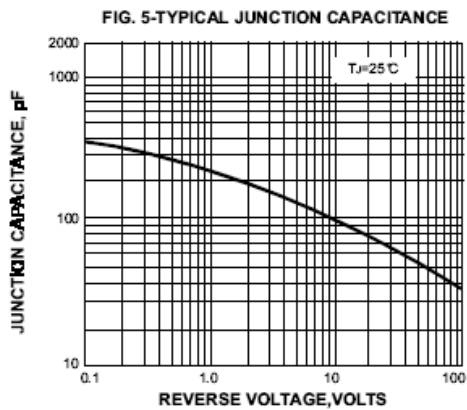
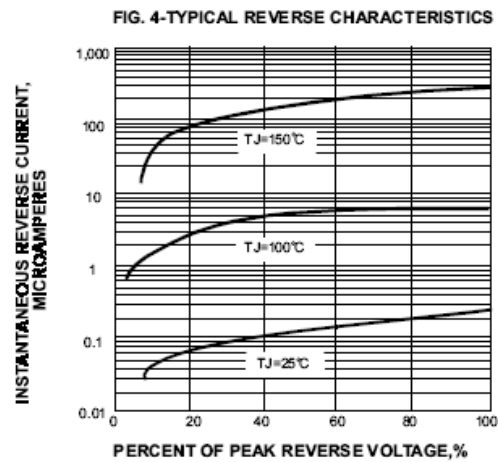
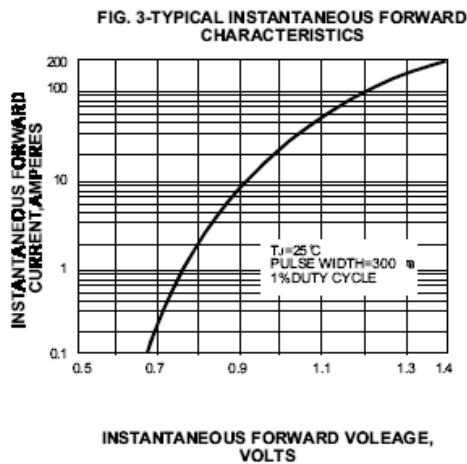
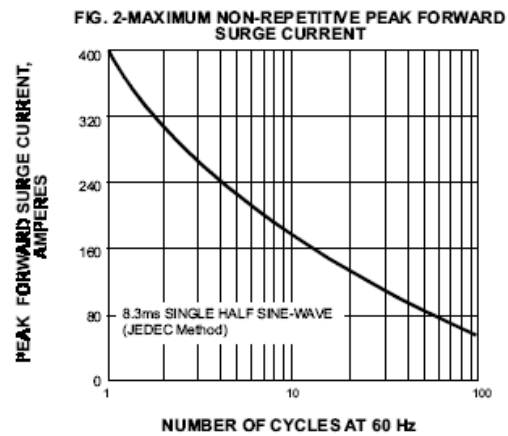
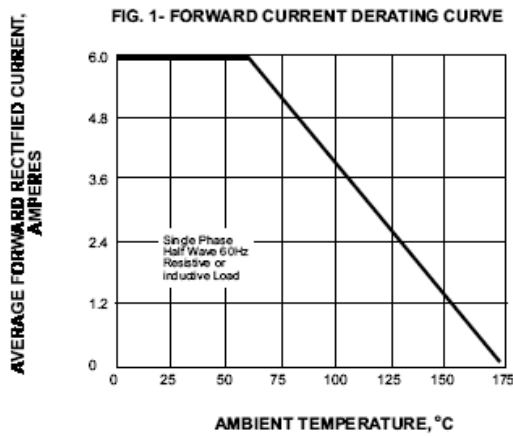
Ratings at 25 C ambient temperature unless otherwise specified.
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

| Type Number | Symbol | 6A05G | 6A1G | 6A2G | 6A4G | 6A6G | 6A8G | 6A10G | Unit |
|---|-----------------------|-------------|------|------|------|------|------|-------|--------------------|
| Maximum repetitive peak reverse voltage Maximum DC blocking voltage | V_{RRM} V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum average forward rectified current 0.375" (9.5mm) lead length at @ $T_A = 60^\circ\text{C}$ | $I_{(AV)}$ | 6.0 | | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 300 | | | | | | | A |
| Maximum instantaneous forward voltage at 6.0A | V_F | 0.95 | | | | | | | V |
| Maximum DC reverse current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$ | I_R | 10.0 400 | | | | | | | μA |
| Typical Junction Capacitance (Note 1) | C_J | 150 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | $R_{\theta JA}$ | 10.0 | | | | | | | $^\circ\text{C/W}$ |
| Operating junction and storage temperature range | T_J, T_{STG} | -65 to +175 | | | | | | | $^\circ\text{C}$ |

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length, P.C.B. mounted

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RATINGS AND CHARACTERISTIC CURVES 6A05G THRU 6A10G





6A05G-6A10G

Technical Data
Data Sheet N0550, Rev. A

Green Products

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