Suntan_® Su_®

General Purpose Plastic Rectifier

| 6A05 THRU 6A10 | VOLTAGE RANGE 50 to 1000 Volts | |
|---|---|--|
| | CURRENT 6.0 Ampere | |
| FEATURES Low forward voltage drop Low leakage current High forward surge capability High temperature soldering guaranteed 260°C/10 seconds,0.375"(9.5m at 5 lbs(2.3kg) tension Mechanical Data Case: Transfer molded plastic Epoxy: UL94V-0 rate flame retardant Polarity: Color band denotes cathode end Lead: Plated axial lead, solderable per MIL-STD-202E method 208C Mounting position: Any | nm)lead length $R-6$.052(1.3) DIA. MIN. .360(9.1) .340(8.6) $360(9.1)$.340(8.6) DIA. 0.95(24.13) MIN. | |
| | Dimensions in inches and (millimeters) | |

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

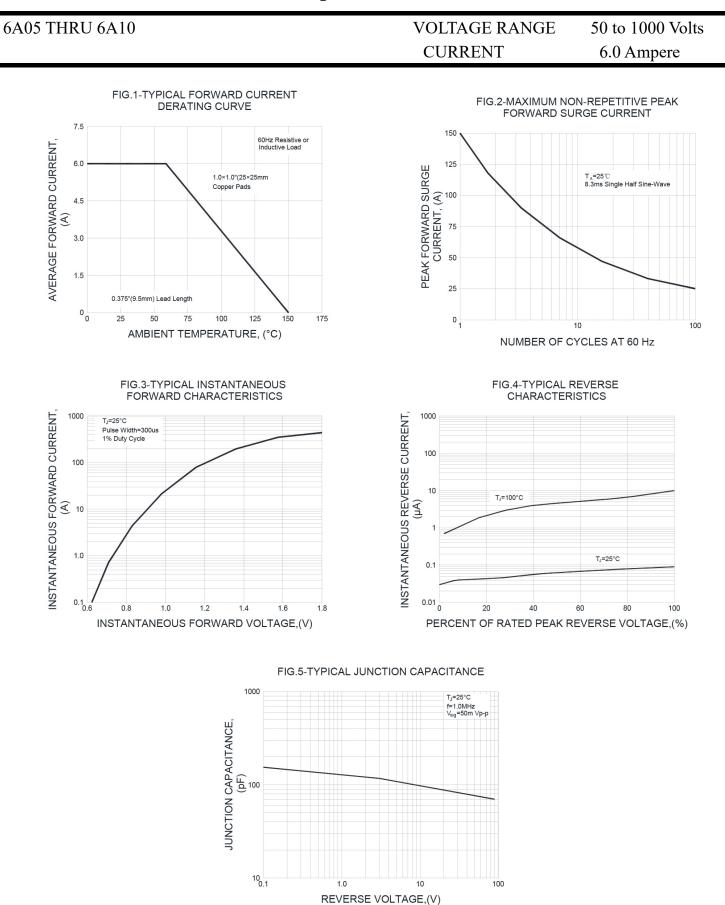
For capacitive load, derate current by 20%

| Tor capacitive load, derate current by z | SYMBOL | 6A05 | 6A1 | 6A2 | 6A4 | 6A6 | 6A8 | 6A10 | UNIT |
|--|-----------------------|-------------|-----|-----|-----|-----|-----|------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current(FIG.1) 0.375"(9.5mm) lead length at T _A =60°C | I(AV) | 6.0 | | | | | | | |
| Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) | Ifsm | 150 | | | | | | | |
| Maximum Instantaneous Forward Voltage at 6.0A | $V_{\rm F}$ | 1.1 | | | | | | | |
| Maximum DC Reverse Current $T_A=25^{\circ}C$ at rated DC Blocking voltage $T_A=100^{\circ}C$ | Ir | 10 100 | | | | | | | |
| Typical Junction Capacitance (NOTE 1) | C _J | 150 | | | | | | | |
| Typical Thermal Resistance (NOTE 2) | $R_{\theta JA}$ | 10 | | | | | | | |
| Operating and Storage Temperature Range | T _J , Tstg | -55 to +150 | | | | | | | |

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

2. Thermal Resistance from Junction to Ambient at. 375" (9.5mm) lead length, P.C. board mounted.

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Note: Specifications are subject to change without notice. For more detail and update, please visit our website.