# Suntan<sub>®</sub> Su<sub>®</sub>

### 6A05 THRU 6A10

#### General Purpose Silicon Rectifier

#### FEATURES

- ♦ High current capability
- Plastic package has Underwriters Laboratory
  Flammability Classification 94V-O ctilizing
  Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- ◆Low leakage.

#### Mechanical Data

◆Case: Molded plastic, DO-201AD

◆ Terminals: Plated axial leads, solderable per

MIL-STD-202, method 208 guaranteed

♦ Polarity: Color band denotes cathode end

- ♦ Mounting position: Any
- ♦ Weight: 0.04ounce, 1.1gram

# **DO -201AD(DO -27)** 0.95 (24.13) 0.95 (24.13) 0.95 (24.13) 0.95 (24.13) 0.95 (24.13) 0.95 (24.13) 0.95 (24.13)0.95 (24.13)

**Dimensions in inches and (millimeters)** 

0.044 (1.10)

#### 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%

Single phase, nan wave, ooriz, resistive or inductive load. For capacitive load, derate current by 20%									
	SYMBOL	6A05	6A1	6A2	6A4	6A6	6A8	6A10	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at $T_A=60$ °C	I(AV)	6.0							Amps
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC method)	Ifsm	150							Amps
Maximum forward Voltage at 6.0A DC and $25^{\circ}$ C	$V_{\rm F}$	1.1							Volts
Maximum Reverse Current at $T_A=25^{\circ}C$ at Rated DC Blocking voltage	Ir	10 100							μAmp
Typical Junction Capacitance (NOTE 1)	C <sub>J</sub>	150							pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	10							°C/W
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	Tstg	-55 to +150							°C

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

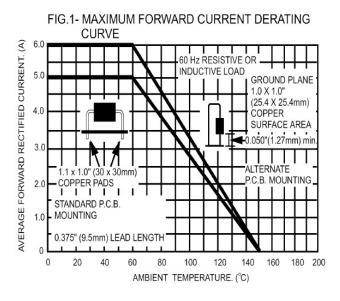
2. Thermal Resistance from Junction to Ambient and form junction to lead at 0.375"(9.5mm)lead length, P.C.B. Mounted with 0.8x0.8" (20x20mm) copper pads.

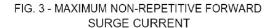
# Suntan<sub>®</sub>Su<sub>®</sub>

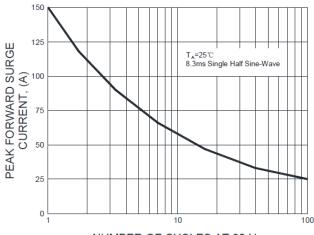
### 6A05 THRU 6A10

### General Purpose Silicon Rectifier

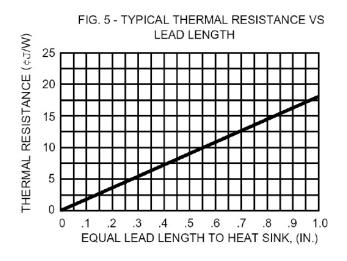
### **RATING AND CHARACTERISTIC CURVES 6A05 THRU 6A10**







NUMBER OF CYCLES AT 60 Hz



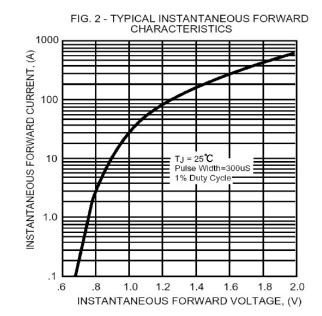
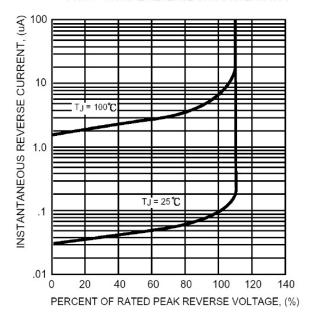


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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