

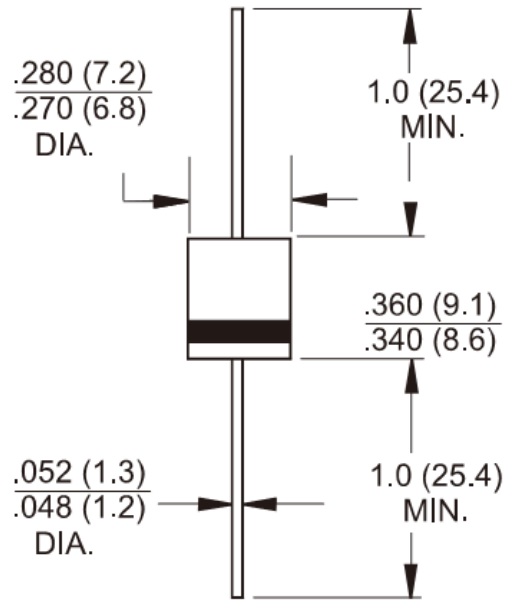


**Features**

- ✧ High efficiency, Low VF
- ✧ High current capability
- ✧ High reliability
- ✧ High surge current capability
- ✧ Low power loss
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode

**Mechanical Data**

- ✧ Cases: Molded plastic
- ✧ Epoxy: UL 94V-0 rate flame retardant
- ✧ Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ✧ Polarity: Color band denotes cathode
- ✧ High temperature soldering guaranteed: 260°C/10s  
.375", (9.5mm) lead lengths at 5 lbs, (2.3kg) tension
- ✧ Weight: 1.65 grams



**Dimensions in inches and (millimeters)**

**Marking Diagram**



- 6AXX = Specific Device Code
- G = Green Compound
- Y = Year
- WW = Work Week

**Maximum Ratings and Electrical Characteristics**

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

Type Number	Symbol	6A 05	6A 10	6A 20	6A 40	6A 60	6A 80	6A 100	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length @TA=60°C	I <sub>F(AV)</sub>	6							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	250							A
Maximum Instantaneous Forward Voltage (Note 1) @ 6 A	V <sub>F</sub>	0.95							V
Maximum DC Reverse Current at @ T <sub>A</sub> =25 °C Rated DC Blocking Voltage @ T <sub>A</sub> =125 °C	I <sub>R</sub>	10 400							uA uA
Maximum Full Load Reverse Current, Full Cycle Average .375"(9.5mm) Lead Length @TA=75°C	I <sub>R(AV)</sub>	50							uA
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	90							pF
Typical Thermal Resistance (Note 3)	R <sub>θJA</sub>	35							°C/W
Operating Temperature Range	T <sub>J</sub>	- 65 to + 150							°C
Storage Temperature Range	T <sub>STG</sub>	- 65 to + 150							°C

Note1: Pulse Test with PW=300 usec, 1% Duty Cycle  
Note2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.  
Note3: Mount on Cu-Pad Size 16mm × 16mm on P.C.B.

## RATINGS AND CHARACTERISTIC CURVES (6A05 THRU 6A100)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

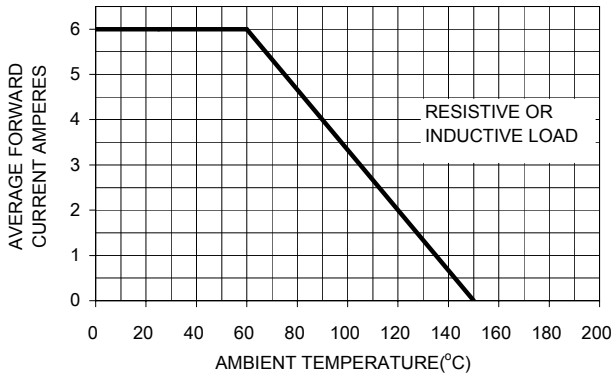


FIG. 2- TYPICAL REVERSE CHARACTERISTICS

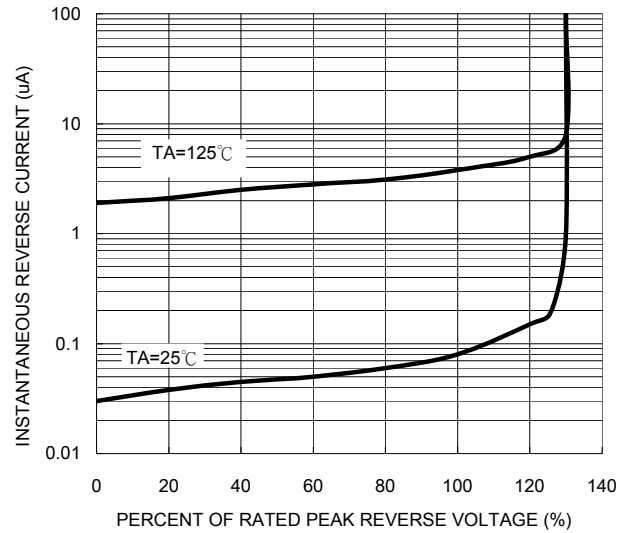


FIG. 3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

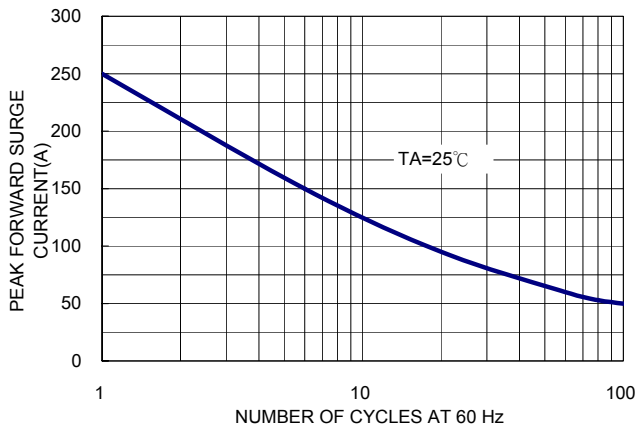


FIG. 4- TYPICAL JUNCTION CAPACITANCE

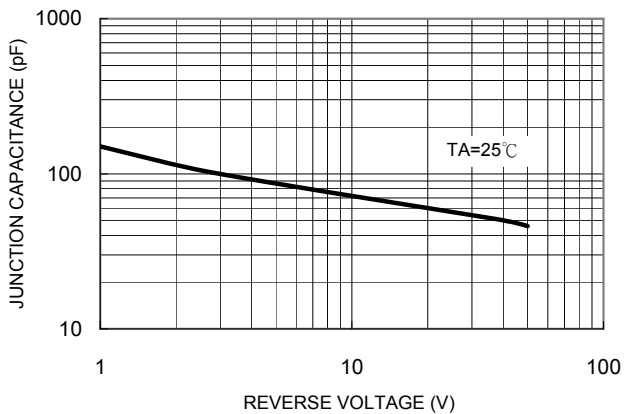
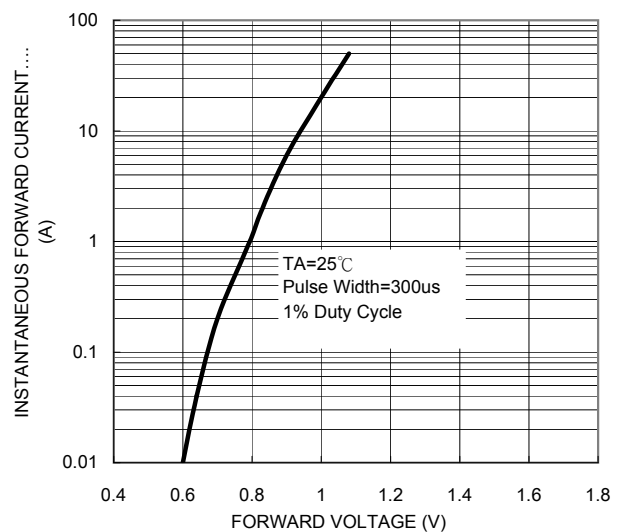


Fig. 5- TYPICAL FORWARD CHARACTERISTICS



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