





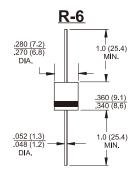
Features

- 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

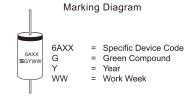
Mechanical Data

- 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/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- Weight: 1.65 grams

6A05 - 6A100 6.0 AMPS. Silicon Rectifiers



Dimensions in inches and (millimeters)



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_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length $@T_A = 60$ °C	I _{F(AV)}	6.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	250							А
Maximum Instantaneous Forward Voltage @ 6.0A	V _F	0.95							٧
Maximum DC Reverse Current at @ T_A =25°C Rated DC Blocking Voltage (Note 1) @ T_A =125°C		10 400							uA uA
Maximum Full Load Reverse Current, Full Cycle Average .375"(9.5mm) Lead Length $@T_A=75^{\circ}\text{C}$	I _{R(AV)}	50							uA
Typical Junction Capacitance (Note 3)	Cj	90							pF
Typical Thermal Resistance (Note 2)	RθJA	35							°C/W
Operating Temperature Range	TJ	-65 to +150							°C
Storage Temperature Range	T _{STG}	-65 to +150							°C

Notes: 1. Pulse Test with PW=300 usec,1% Duty Cycle

2. Mount on Cu-Pad Size 16mm x 16mm on P.C.B. 3. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

Version: C10



RATINGS AND CHARACTERISTIC CURVES (6A05 THRU 6A100)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURE

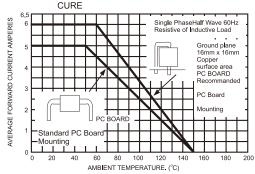


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

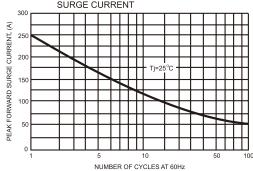


FIG.4- TYPICAL JUNCTION CAPACITANCE

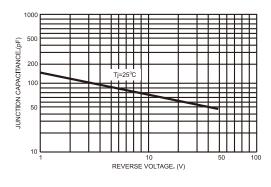


FIG.2- TYPICAL REVERSE CHARACTERISTICS

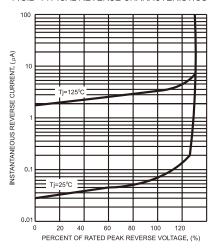


FIG.5- TYPICAL FORWARD CHARACTERISTICS

