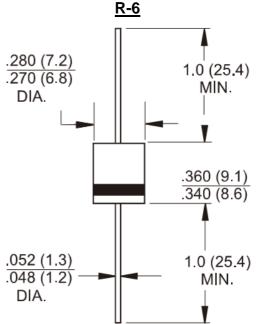
TAIWAN SEMICONDUCTOR

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

Maximum Ratings and Electrical Characteristics

Rating at 25 $^\circ\!\mathrm{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number		6A	6A	6A	6A	6A	6A	80 100	Units
		05	10	20	40	60	80		
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length @TA=60 $^\circ$ C	I _{F(AV)}	6			A				
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 (Note 1) @ 6 A	V _F	0.95			V				
Maximum DC Reverse Current at@ $T_A=25 \degree C$ Rated DC Blocking Voltage@ $T_A=125\degree C$		10							uA
		400							uA
Maximum Full Load Reverse Current, Full Cycle Average .375"(9.5mm) Lead Length @TA=75°C	I _{R(AV)}	50			uA				
Typical Junction Capacitance (Note 2)		90						pF	
Typical Thermal Resistance (Note 3)		35					°C/W		
Operating Temperature Range	TJ	- 65 to + 150			°C				
Storage Temperature Range		- 65 to + 150						ос	

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.

ad (millimaters)

6A05 - 6A100

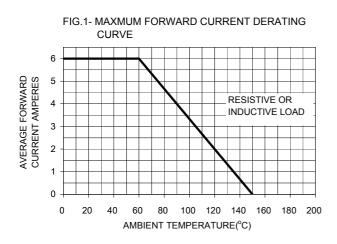
6.0 AMPS. Silicon Rectifiers

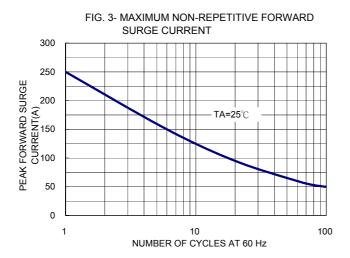
Dimensions in inches and (millimeters)

Π	Marking D	iagram
	6AXX	= Specific Device Code
G G G G G W W W	G	= Green Compound
	= Year	
	WW	= Work Week
U		

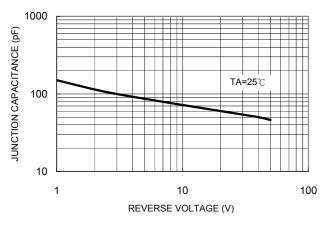


RATINGS AND CHARACTERISTIC CURVES (6A05 THRU 6A100)









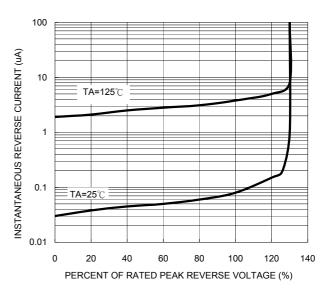


FIG. 2- TYPICAL REVERSE CHARACTERISTICS

Fig. 5- TYPICAL FORWARD CHARACTERISTICS

