



GT605 THRU GT610

6.0 AMPS. Glass Passivated Rectifiers



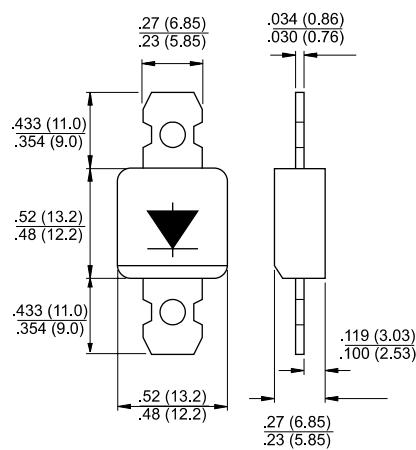
Voltage Range
50 to 1000 Volts
Current
6.0 Amperes

Features

- ◊ Low forward voltage drop
- ◊ High current capability
- ◊ High reliability
- ◊ High surge current capability

Mechanical Data

- ◊ Cases: Molded plastic
- ◊ Epoxy: UL 94V-0 rate flame retardant
- ◊ Lead: Terminals, solderable per MIL-STD-202, Method 208 guaranteed
- ◊ High temperature soldering guaranteed: 250°C/10 seconds at 5 lbs.,(2.3kg) tension
- ◊ Weight: 3.46 grams



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	GT605	GT61	GT62	GT64	GT66	GT68	GT610	Units
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 @ T _A = 60°C					6.0			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)					250			A
Maximum Instantaneous Forward Voltage @ 6.0A				1.0				V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C				10	100			uA
Typical Junction Capacitance (Note)				100				pF
Operating Temperature Range T _J				-65 to +150				°C
Storage Temperature Range T _{STG}				-65 to +150				°C

Note: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES (GT605 THRU GT610)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

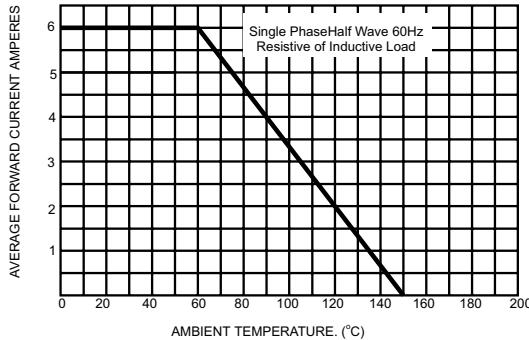


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

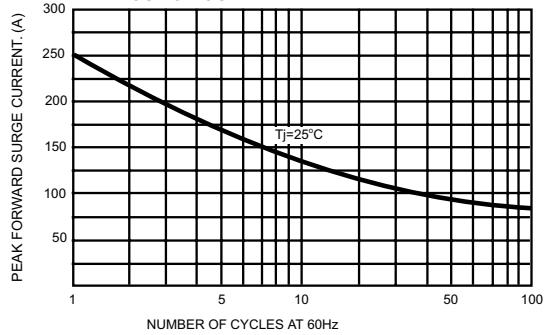


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

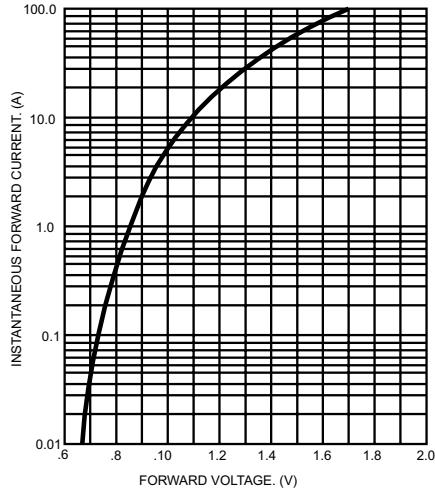


FIG.4- TYPICAL JUNCTION CAPACITANCE

