

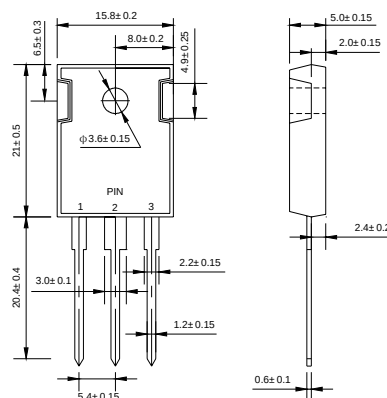
Features

- ◇ Low cost
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with alcohol, Isopropanol and similar solvents
- ◇ The plastic material carries U/L recognition 94V-0

Mechanical Data

- ◇ Case: JEDEC TO-3P, molded plastic
- ◇ Terminals: Solderable per MIL-STD-750, Method 2026
- ◇ Polarity: As marked
- ◇ Weight: 0.223 ounce, 6.3 grams
- ◇ Mounting position: Any

TO-3P



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

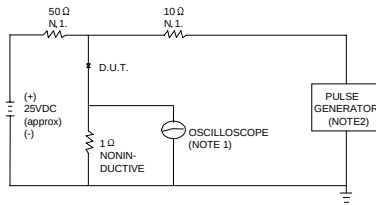
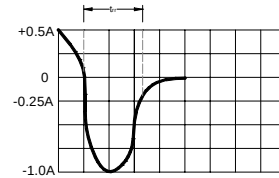
Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		GF 2010PC	GF 2020PC	GF 2030PC	GF 2040PC	GF 2050PC	GF 2060PC	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	100	200	300	400	500	600	V
Maximum RMS voltage	V _{RMS}	70	140	210	280	350	420	V
Maximum DC blocking voltage	V _{DC}	100	200	300	400	500	600	V
Maximum average forw ard rectified current @T _C =100℃	I _{F(AV)}	20						A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load @T _J =125℃	I _{FSM}	150						A
Maximum instantaneous forw ard voltage @ 10 A	V _F	0.98		1.3		1.7		V
Maximum reverse current @T _A =25℃ at rated DC blocking voltage @T _A =150℃	I _R	5.0 250		10 500				μ A
Maximum reverse recovery time (Note1)	t _{rr}	30						ns
Operating junction temperature range	T _J	- 55 ----- + 150						℃
Storage temperature range	T _{STG}	- 55 ----- + 150						℃

NOTE: 1. Measured with $I_F=0.5\text{A}$, $I_R=1\text{A}$, $t_{rr}=0.25\text{A}$.

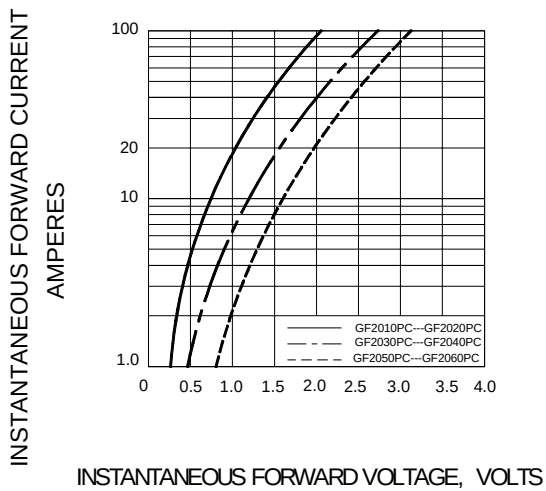
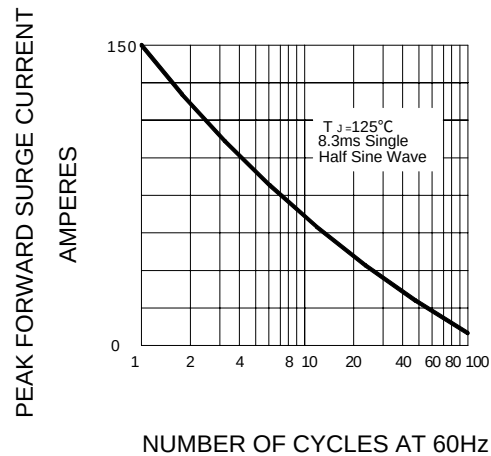
Ratings AND Characteristic Curves

FIG.1 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC


SET TIME BASE FOR 15 ns/cm

 NOTES: 1. RISE TIME = 7ns MAX. INPUT IMPEDANCE = $1M\Omega$, 22pF.

 2. RISE TIME = 10ns MAX. SOURCE IMPEDANCE = 50 Ω .

FIG.2 – TYPICAL FORWARD CHARACTERISTIC

FIG.3 – PEAK FORWARD SURGE CURRENT

FIG.4-FORWARD DERATING CURVE
