

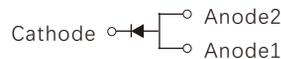
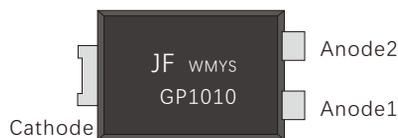
FEATURES

- The plastic package carries Underwrites Laboratory
- Flammability Classification 94V-0
- High forward current capability
- High surge current capability
- Construction utilizes void-free molded plastic technique
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU



MECHANICAL DATA

- Case:TO-277 molded plastic body
- Terminals: Plated axial lead, solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any



TYPICAL APPLICATIONS

For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes application.

MARKING:
JF-Logo
W-Work week
M-Work month
Y-Work year
S-Assembly location
GP1010-Device Type

MAXIMUM RATINGS

(Ratings at 25°C ambient temperature unless otherwise specified)

Parameter	Symbol	Value	Unit
Maximum recurrent peak reverse voltage	V_{RRM}	1000	Volts
Maximum RMS voltage	V_{RMS}	700	Volts
Maximum DC blocking voltage	V_{DC}	1000	Volts
Maximum average forward rectified current	$I(AV)$	10.0	Amps
Peak forward surge current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	200	Amps
Maximum instantaneous forward voltage at 10.0 A	V_F	1.1	Volts
Maximum reverse current at rated DC blocking voltage	$T_J=25^{\circ}C$	5.0	μA
	$T_J=125^{\circ}C$	100	
Typical junction capacitance (Note 1)	C_J	53	pF
Typical thermal resistance (Note 2)	Junction-Ambient $R_{\theta JA}$	60.0	$^{\circ}C/W$
	Junction-Lead $R_{\theta JL}$	3.0	
Operating and Storage temperature range	T_J/T_{STG}	-55 to+150	$^{\circ}C$

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D C .

2.Mounted on recommended PCB 1 oz. Pad layout

FIG.1-FORWARD CURRENT DERATING CURVE

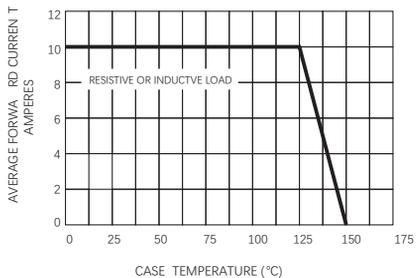


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

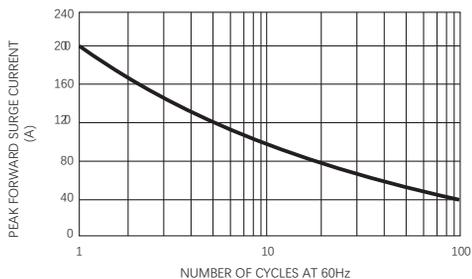


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

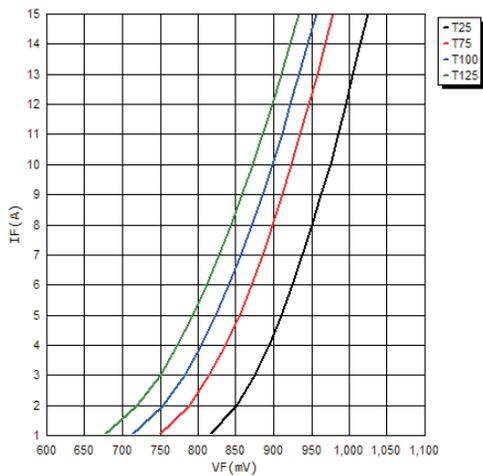
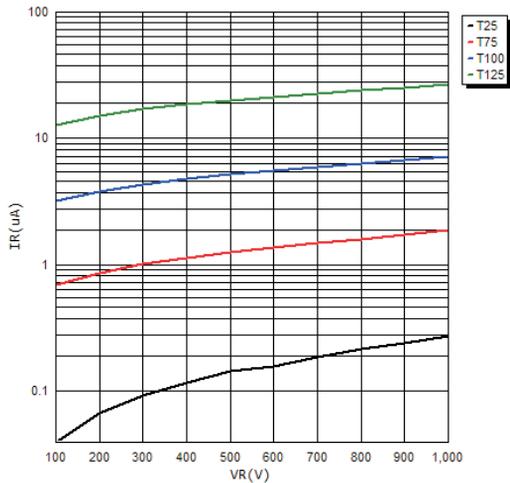
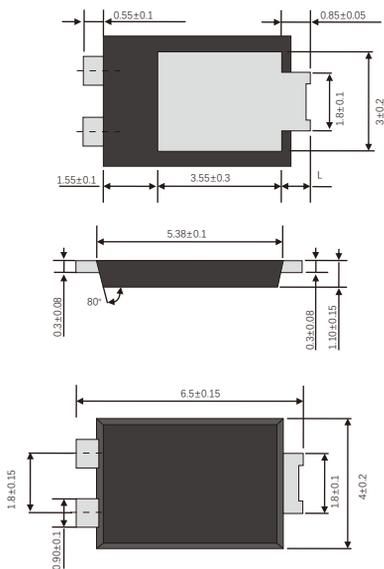


FIG.4-TYPICAL REVERSE CHARACTERISTICS

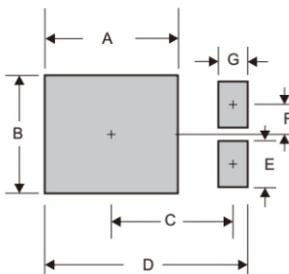


TO-277



Suggested Pad

■ TO-277 foot print



A	B	C	D	E	F	G
0.185 (4.70)	0.142 (3.60)	0.152 (3.87)	0.260 (6.60)	0.055 (1.40)	0.035 (0.90)	0.031 (0.80)

Dimensions in inches and (millimeters)

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