



GPA1601 THRU GPA1607

16.0 AMPS. Glass Passivated Rectifiers



Voltage Range
50 to 1000 Volts
Current
16.0 Amperes

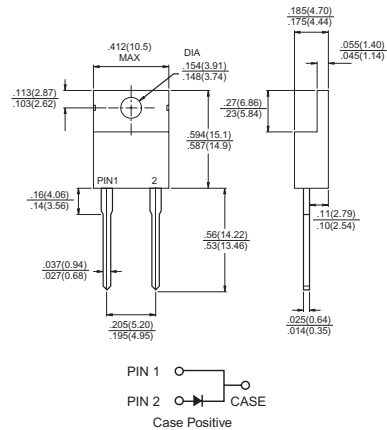
Features

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

Mechanical Data

- ✧ Cases: TO-220A molded plastic
- ✧ Epoxy: UL 94V-0 rate flame retardant
- ✧ Terminals: Leads solderable per MIL-STD-202, Method 208 guaranteed
- ✧ Polarity: As marked
- ✧ High temperature soldering guaranteed: 260°C/10 seconds .16", (4.06mm) from case.
- ✧ Weight: 2.24 grams

TO-220A



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	GPA 1601	GPA 1602	GPA 1603	GPA 1604	GPA 1605	GPA 1606	GPA 1607	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 @ $T_C = 100^\circ C$	$I_{(AV)}$	16.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	250							A
Maximum Instantaneous Forward Voltage @ 16.0A	V_F	1.1							V
Maximum DC Reverse Current @ $T_C=25^\circ C$ at Rated DC Blocking Voltage	I_R	10							μA
Typical Junction Capacitance (Note 1)	C_j	100							pF
Typical Thermal Resistance (Note 2)	$R\theta_{JC}$	2.0							$^\circ C/W$
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 150							$^\circ C$

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

2. Thermal Resistance from Junction to Ambient Mounted on Heatsink size 2" x 3" x 0.25" Al-Plate

RATINGS AND CHARACTERISTIC CURVES (GPA1601 THRU GPA1607)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

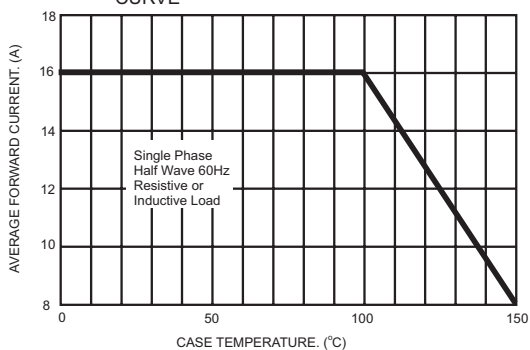


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

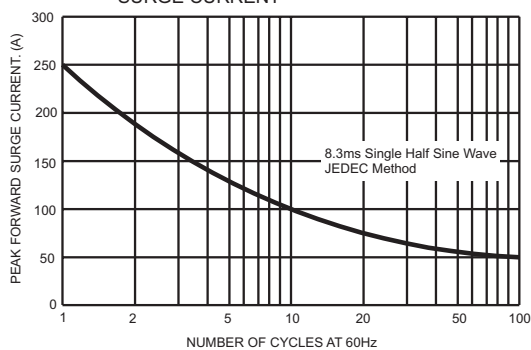


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

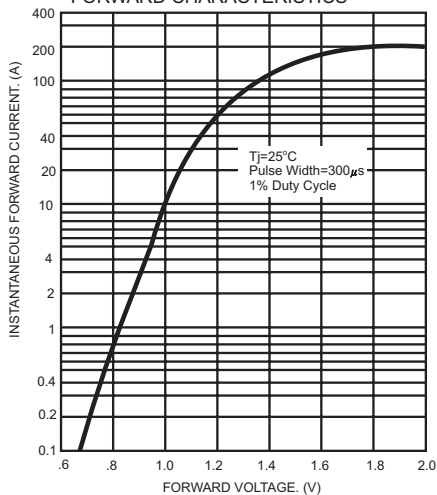


FIG.4- TYPICAL REVERSE CHARACTERISTICS

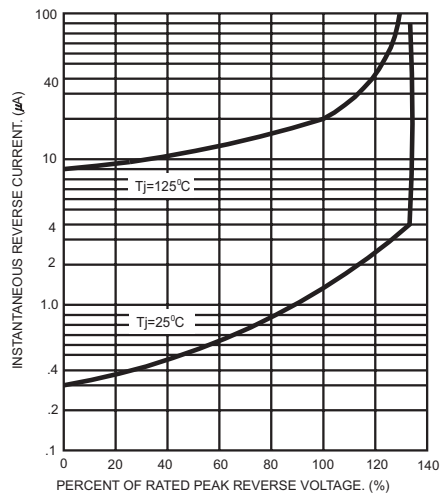
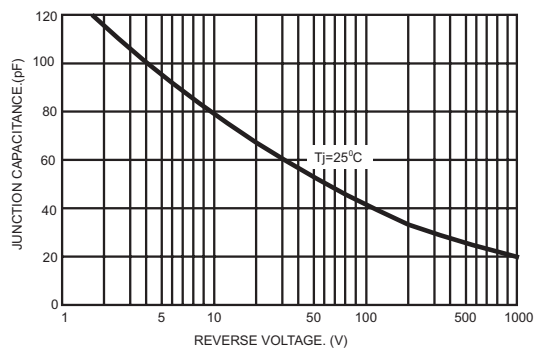


FIG.5- TYPICAL JUNCTION CAPACITANCE



This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [taiwan semiconductor manufacturer](#):

Other Similar products are found below :

[S2J](#) [MBR1060 C0](#) [GBPC2508M](#) [GBU806](#) [RMB6S](#) [BZD27C13P](#) [1SMA4753](#) [S1K](#) [S3D](#) [SF14](#) [ES2J](#) [SS14](#) [RSFDL](#) [RSFML](#) [P4SMA200A](#)
[R3G](#) [ES1GL](#) [SS15](#) [RS1G](#) [1.5KE220A-R0](#) [HS5M R7G](#) [GBU1007 D2G](#) [B0530WS-RRG](#) [BAT42WS-RRG](#) [BAT43WS-RRG](#) [BAV21-A0G](#)
[BC546B-B1](#) [BYG20J-R3G](#) [BZS55C5V1-RXG](#) [BZT52C4V7-RH](#) [BZX85C9V1-R0G](#) [1N5392G](#) [1N5398G](#) [1N5395G](#) [1N5397G](#)
[GBPC2501W](#) [TSM1NB60CP](#) [TSM2318CX](#) [TS1117BCP-5.0](#) [GBPC2502](#) [LL4004G](#) [SS14 F2](#) [S10MC V7G](#) [1N4148W-RHG](#) [TS78L05CT](#)
[A3G](#) [TSM60N750CP](#) [TS19450CS RLG](#) [SMBJ36A-M4G](#) [GBPC2508](#) [TS4B06G](#) [ES2JA-R3G](#)