



GBU6005 THRU GBU610

Reverse Voltage - 50 to 1000 Volts Forward Current - 6.0 Amperes

GLASS PASSIVATED BRIDGE RECTIFIERS

Features

- ◆ Surge overload rating -135 amperes peak
- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ Plastic material has U/L flammability classification 94V-0



Mechanical Data

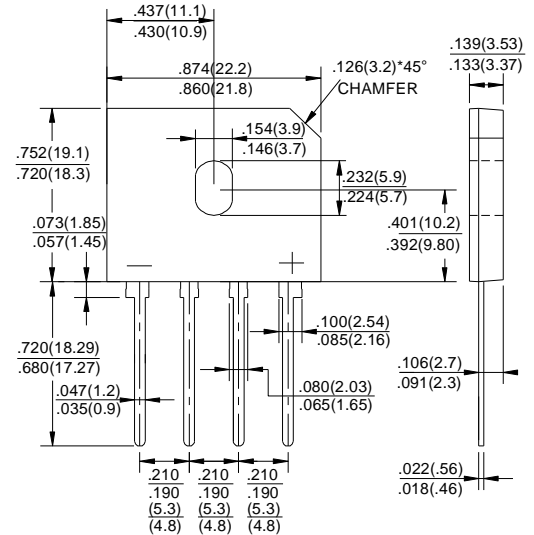
Case : JEDEC GBU Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.00XX ounce, 0.0XX grams



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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

Parameter	SYMBOLS	GBU 6005	GBU 601	GBU 602	GBU 604	GBU 606	GBU 608	GBU 610	UNITS
		MDD GBU 6005	MDD GBU 601	MDD GBU 602	MDD GBU 604	MDD GBU 606	MDD GBU 608	MDD GBU 610	
Maximum repetitive 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 (with heatsink NOTE 2) Rectified current @ $T_c=100^\circ\text{C}$ (without heatsink)	$I_{(AV)}$				6.0 2.8				A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}				175.0				A
Rating for Fusing ($t < 8.3\text{ms}$)	I^2t				127				A^2s
Maximum forward voltage at 3.0A DC	V_F				1.0				V
Maximum forward voltage at 6.0A DC	V_F				1.1				V
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$	I_R				10 500				μA μA
Typical Junction Capacitance (Note 1)	C_J				50				pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$				2.2				$^\circ\text{C}/\text{W}$
Operating junction temperature range	T_J				-55 to +150				$^\circ\text{C}$
storage temperature range	T_{STG}				-55 to +150				$^\circ\text{C}$

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Device mounted on 75mm*75mm*1.6mm cu plate heatsink.

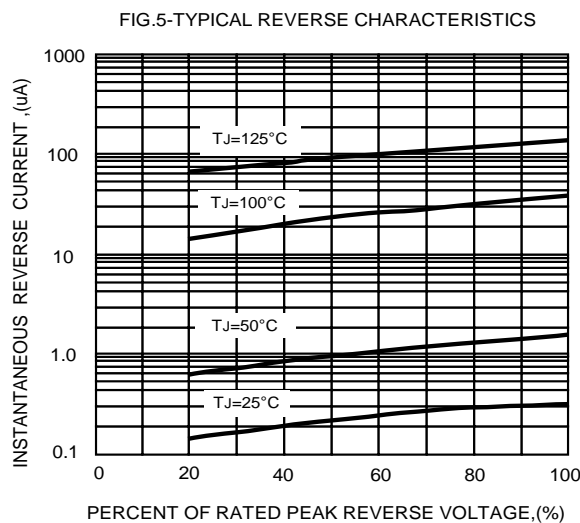
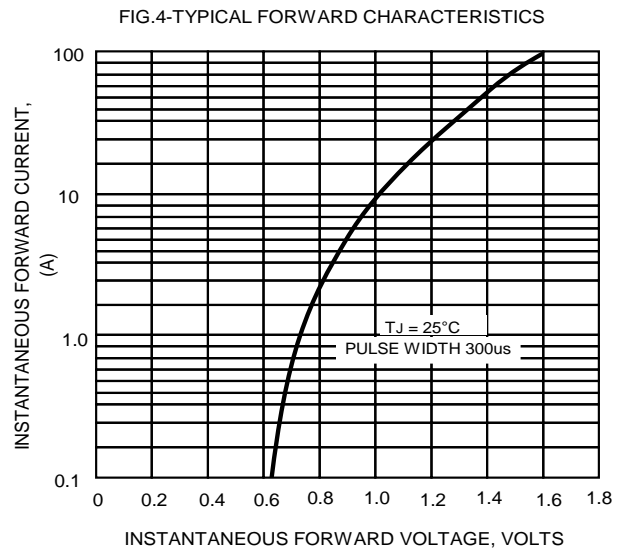
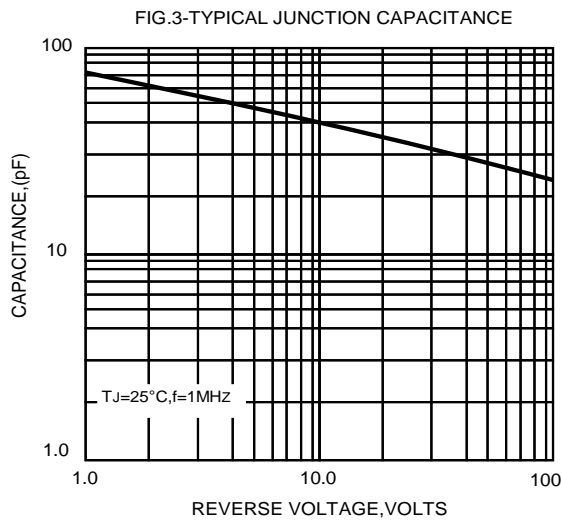
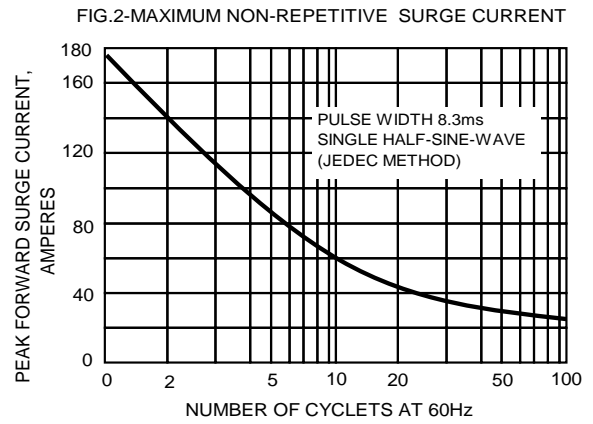
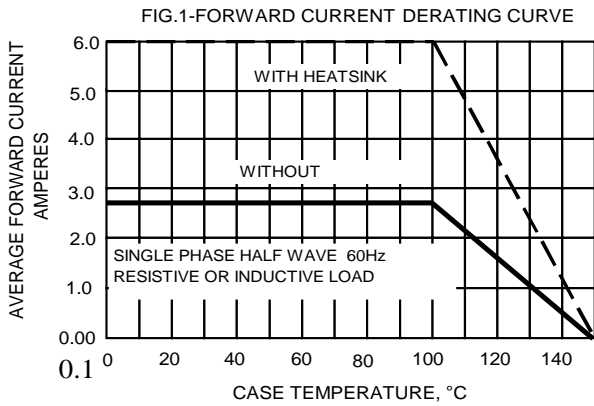
3. The typical data above is for reference only.



GBU6005 THRU GBU610

Reverse Voltage - 50 to 1000 Volts Forward Current - 6.0 Amperes

Ratings And Characteristic Curves



The curve above is for reference only.

单击下面可查看定价，库存，交付和生命周期等信息

[>>MDD\(辰达行\)](#)