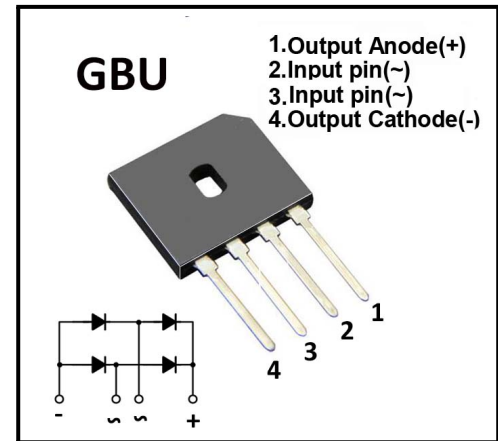


Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals
- The G suffix is uses for photoresist chip, otherwise it is a knife scraping chip

Mechanical Data



MECHANICAL DATA

- Case: Molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbol marking on body
- Mounting Position: Any

Maximum Ratings And Electrical Characteristics (@T_A=25°C unless otherwise noted)

Symbol	Parameter	GBU2 5005D	GBU2 501D	GBU2 502D	GBU2 504D	GBU2 506D	GBU2 508D	GBU2 510D	Unit
V _{RRM}	repetitive peak reverse voltage	50	100	200	400	600	800	1000	V
V _{RMS}	RMS voltage	35	70	140	280	420	560	700	V
V _{DC}	DC blocking voltage	50	100	200	400	600	800	1000	V
I _{AV}	Maximum average forward rectified current with heatsink	25.0							A
I _{FSM}	Peak forward surge current, 8.3ms single half sine-wave	250.0							A
I _t ²	I _t ² Rating for fusing (t=8.3ms, T _A =25°C)	259.375							A ² _S
V _F	Forward Voltage at 12.5A	1.10							V
I _R	Peak Reverse Current@T _A =25°C at rated DC blocking voltage@ T _A =125°C	5.0 500							uA
C _J	Typical junction capacitance(Note 1)	55							pF
R _{qJA}	Typical thermal resistance	25							°C/W
T _J	Operation Temperature Range	-55 to +150							°C
T _{STG}	Storage Temperature Range	-55 to +150							

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

(2)Mounted on glass epoxy PC board with 1.3mm² solder pad.

(3) Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.



Ratings And Characteristic Curves

Figure 1: DERATING CURVE OUTPUT RECTIFIED CURRENT

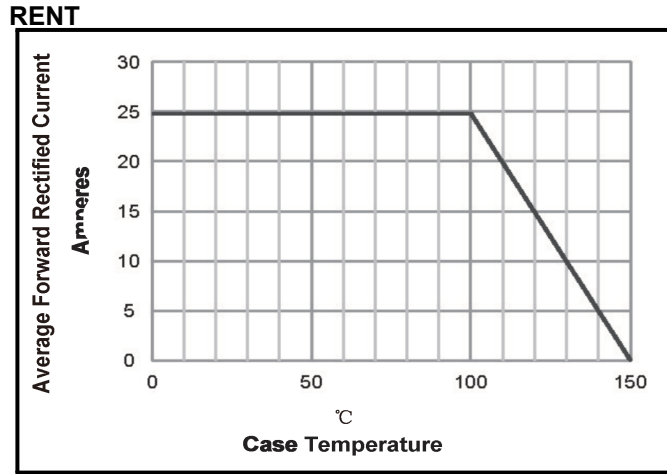


Figure 2: MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

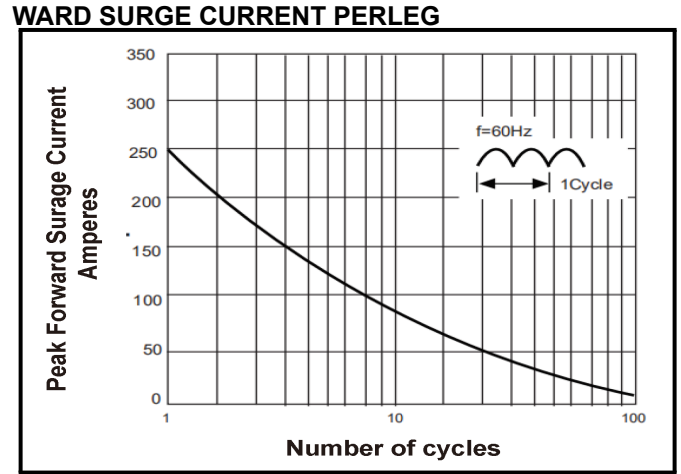


Figure 3: TYPICAL FORWARD VOLTAGE CHARACTERISTICS

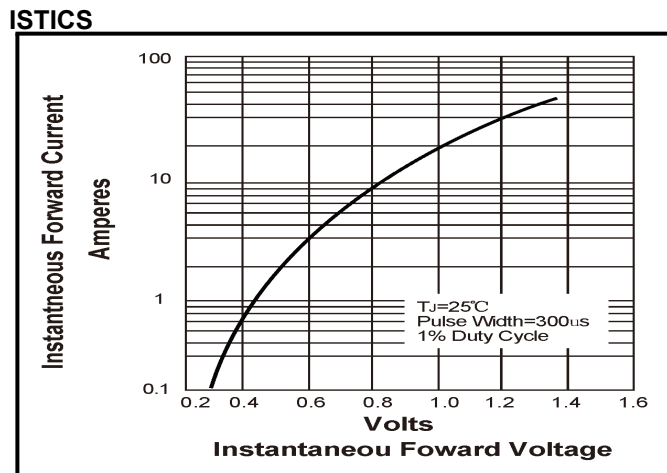
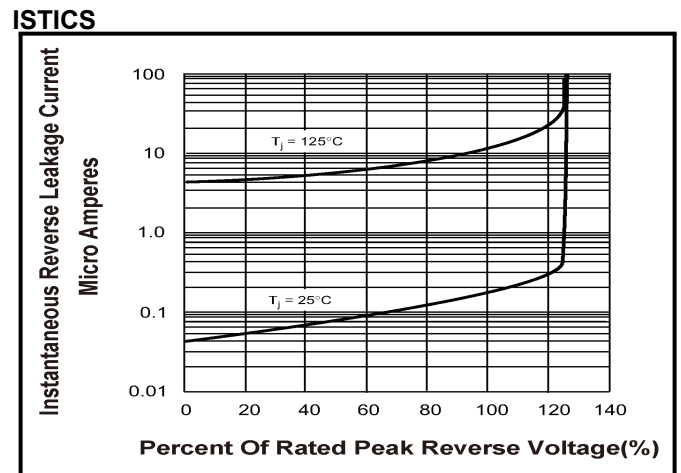
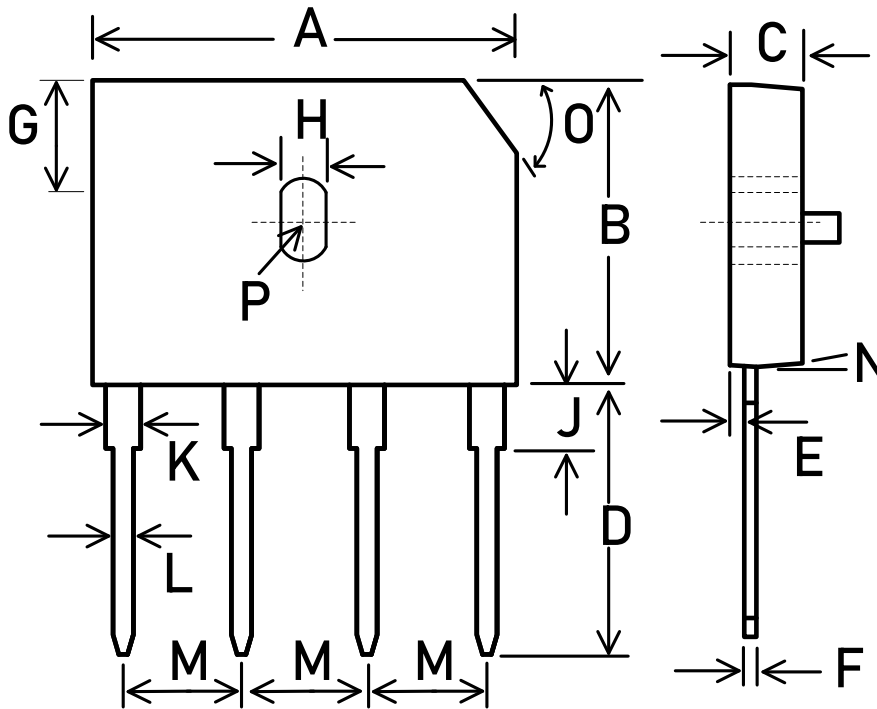


Figure 4: TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Outline Drawing -GBU



SYMBOL	MILLIMETER	
	MIN.	MAX.
A	21.80	22.30
B	18.30	18.80
C	3.30	3.60
D	17.50	18.00
E	0.76	1.00
F	0.45	0.55
G	7.40	7.90
H	3.50	4.10
I	1.65	2.16
J	2.25	2.75
K	2.00	2.40
L	1.00	1.30
M	4.83	5.33
N	7.0° TYP.	
O	(3.2)x45°	
P	1.90PADIUS	



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bridge Rectifiers](#) category:

Click to view products by [Bourne](#) manufacturer:

Other Similar products are found below :

[MB252](#) [MB356G](#) [MB358G](#) [GBJ1504-BP](#) [GBU10B-BP](#) [GBU15K-BP](#) [GBU4A-BP](#) [GBU4D-BP](#) [DB101-BP](#) [DF01](#) [DF10SA-E345](#) [KBPC50-10S](#) [RS405GL-BP](#) [GBJ1502-BP](#) [GBU6M](#) [TB102M](#) [MB1510](#) [MB86](#) [TL401G](#) [MDA920A2](#) [TU602](#) [TU810](#) [MP5010W-BP](#) [MP501W-BP](#) [MP502-BP](#) [KBPC25-02](#) [VBO160-12NO7](#) [VS-110MT120KPBF](#) [VS-60MT80KPBF](#) [DB105-BP](#) [DF1510S](#) [VS-40MT160PAPBF](#) [GBU4G-BP](#) [GSIB15A80-E3/45](#) [DB104-BP](#) [D3SB60](#) [TB354](#) [GBJ2504-BP](#) [26MB100A](#) [B1S-G](#) [VS-40MT160KPBF](#) [VUO162-16NO7](#) [ABS10-G](#) [GBU6B-BP](#) [GBJ1508-BP](#) [BR5010-G](#) [ABS6-G](#) [B125C800G-E4/51](#) [MSB15MH-13](#) [LBS10-13](#)