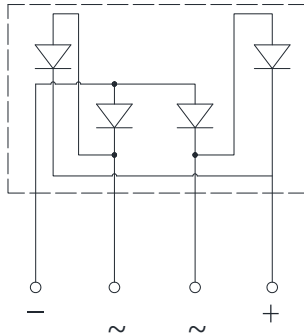
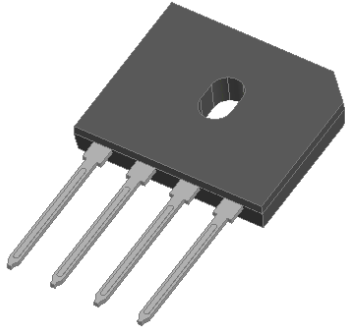


Bridge Rectifiers



Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

Mechanical Data

- P

		V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage		V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage		V_{DC}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave , R-load	With heatsink $T_c = 100$	I_O	A	25.0						
	Without heatsink $T_a = 25$			3.5						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, $T_j = 25$		I_{FSM}	A	350						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j = 25$				700						
Current squared time @1ms≤t≤8.3ms $T_j = 25$, Rating of per diode		I^2t	A^2S	508						
Storage temperature		T_{stg}		-55 ~ +150						
Junction temperature		T_j		-55 ~ +150						
Dielectric strength @ Terminals to case, AC 1 minute		V_{dis}	KV	2.5						
Mounting torque @Recommend torque 5kg cm		Tor	kg cm	8						



GBU25005A THRU GBU2510A

■Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBU25005A	GBU2501A	GBU2502A	GBU2504A	GBU2506A	GBU2508A	GBU2510A
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=12.5A$							1.0
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	$T_j=25$							5
			$T_j=125$							100
Typical junction capacitance	C_j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C							118

■Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	GBU25005A	GBU2501A	GBU2502A	GBU2504A	GBU2506A	GBU2508A	GBU2510A
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	/W							25.0
	Between junction and case, With heatsink	$R_{\theta J-C}$								1.0

Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBU25005A THRU GBU2510A	B1	Approximate 3.97	20	1000	2000	TUBE
GBU25005A THRU GBU2510A	A1	Approximate 3.97	250	250	4000	BOX

■ Characteristics (Typical)

FIG1: I_o - T_c Curve

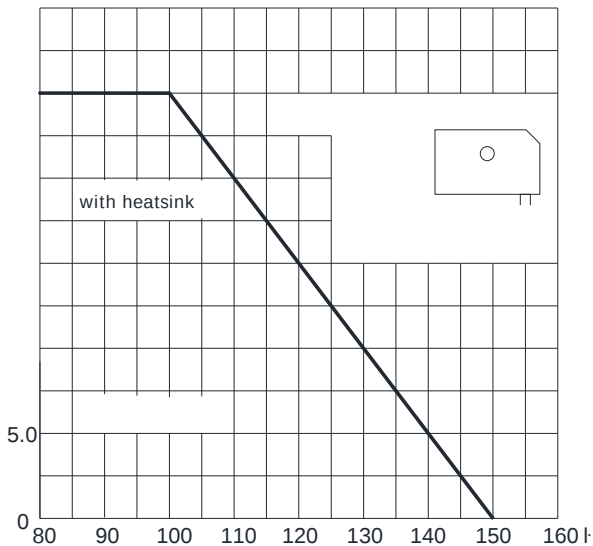


FIG2: Surge Forward Current Capability

