

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

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.

: GBU

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

As marked on body

($T_a=25$ Unless otherwise specified Å

Device marking code				HGBU1004
Maximum Repetitive Peak Reverse Voltage	VRRM	V		400
Maximum RMS Voltage	VRMS	V		280
Maximum DC blocking Voltage	VDC	V		400
Average rectified output current @60Hz half sine wave, R-load	With heatsink $T_c=100$ -	IO	A	10.0
	Without heatsink $T_a=25$ -			3.2
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j=25$ -	IFSM	A		150
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25$ -				300
Current squared time @1ms t 8.3ms $T_j=25$ - , Rating of per diode	I^2t	A^2S		93
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 05kg cm	Tor	kg cm		8

Å $T_a=25$ Unless otherwise specified Å

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Maximum reverse recovery time	T_{RR}	ns	$I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$	50
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$\dot{A}T_a=25$ Unless otherwise specified \dot{A}

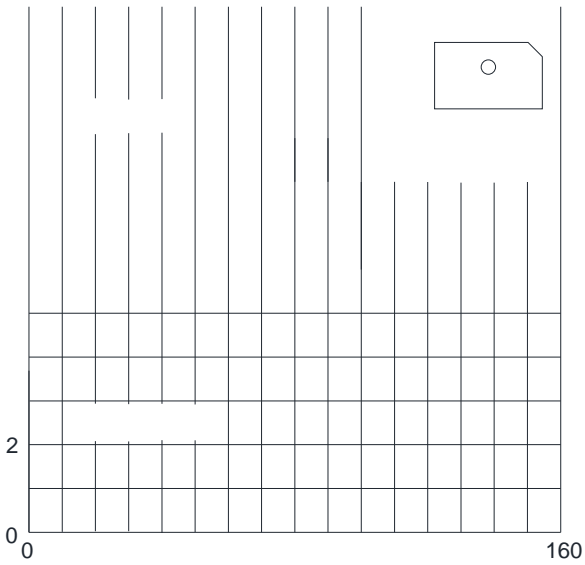
Thermal Resistance	Between junction and ambient, Without heatsink	R J-A	- /W	20
	Between junction and case, With heatsink	R J-C		2

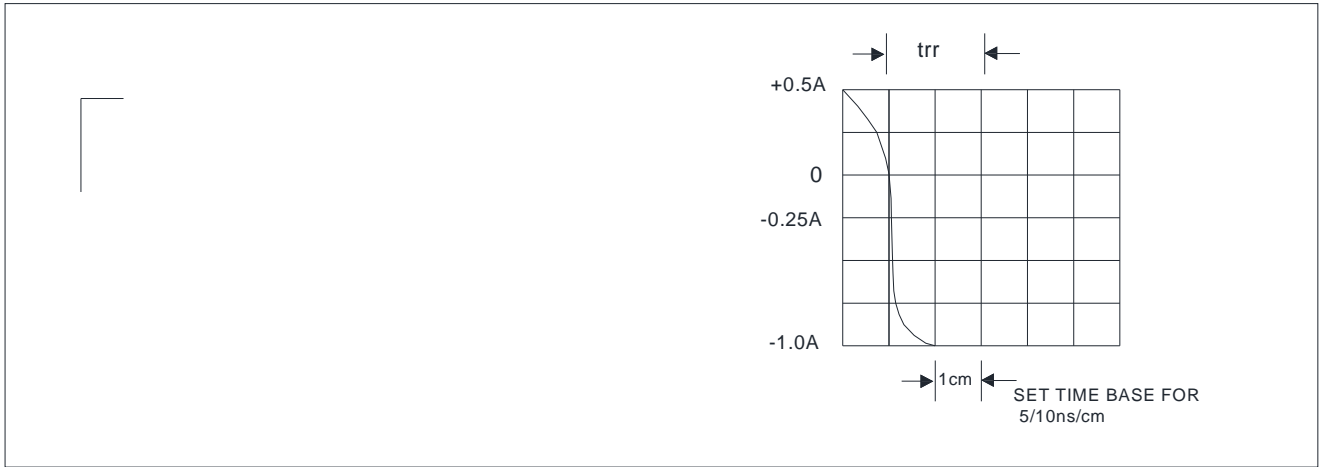
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

(Example)

HGBU1004	B1	Approximate 3.96	20	1000	2000	TUBE

(Typical)





Dim	Min	Max
A	21.80	22.30
B	18.30	18.80
C	17.50	18.00
D	3.50	4.10
E	7.40	7.90
F	1.65	2.16
G	1.91	2.54
H	2.06	2.54
I	1.02	1.27
J	4.83	5.33
K	3.30	3.56
L	2.40	2.66
M	0.46	0.56



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