

Rev.A.Aug.-2019

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Glass Passivated Bridge Rectifiers, Reverse Voltage:50~1000V,Forward Current:10.0A,GBU package.

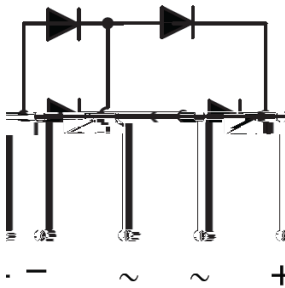
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i PCB Æ # + k.> % ÀÚÓk.> UL É ~ ~ . 94V-0o)í D }o
Ideal for printed circuit board, Case material molded plastic, The plastic material has U/L flammability classification 94V-0. Halogen free product.

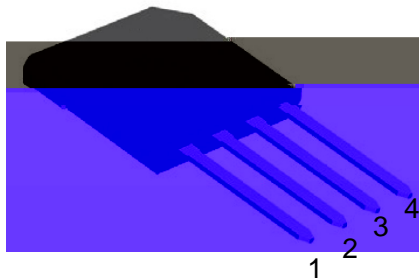
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General purpose.

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PIN1 y DC- PIN2 y AC PIN 3 y AC PIN 4 y DC+

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- ~ " Øo See Marking Instructions

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Parameter	Z Symbol	Rating							% y Unit
		GBU 10005	GBU 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	
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(with heatsink Note 2)	$I_{F(AV)}$	10.0							A
Maximum Average Forward Rectified Current @ $T_C=100$ (without heatsink)		3.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	220							A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	200							A^2s
Typical Junction Capacitance Per Element (Note1)	CJ	86							pF
Typical Thermal Resistance (Note2)	R_{Jc}	2.0							/W
Operating Temperature Range	T_j	-55 to +150							
Storage Temperature Range	T_{stg}	-55 to +150							

NOTE:

- 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 2.Device mounted on 150mm*150mm*1.6mm Cu Plate Heatsink.

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Parameter	Z Symbol	y i Ú^ Test Conditions	Rating	% y Unit
Maximum Forward Voltage	V_F	$I_F=5.0A$	1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25$	5.0	A
		$T_a=125$	500	

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FIG.1-FORWARD CURRENT DERATING CURVE

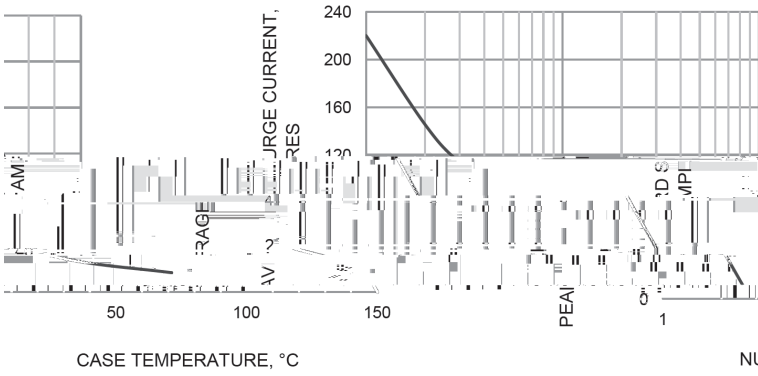


FIG.2-MAXIMUM FORWARD SURGE CURRENT

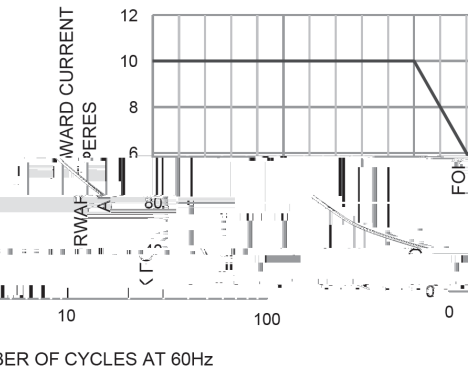


FIG.3-TYPICAL INDUCTIVE LOAD CHARACTERISTICS

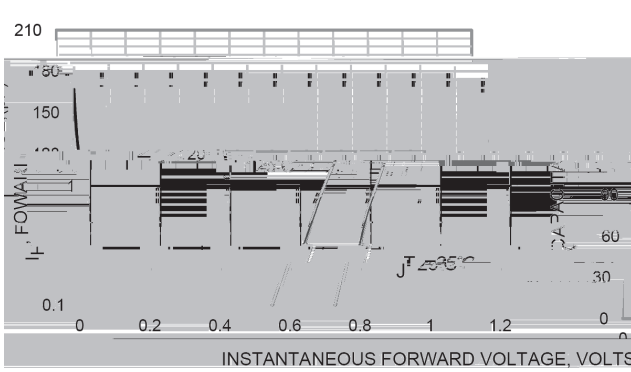


FIG.4-TYPICAL FORWARD CHARACTERISTICS

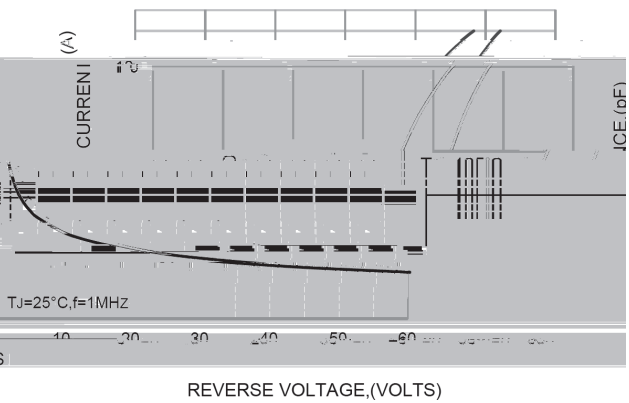
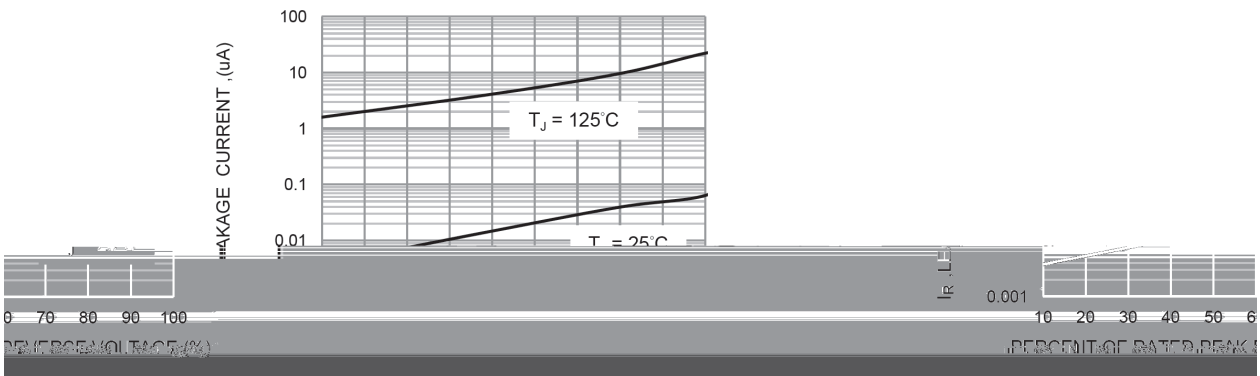
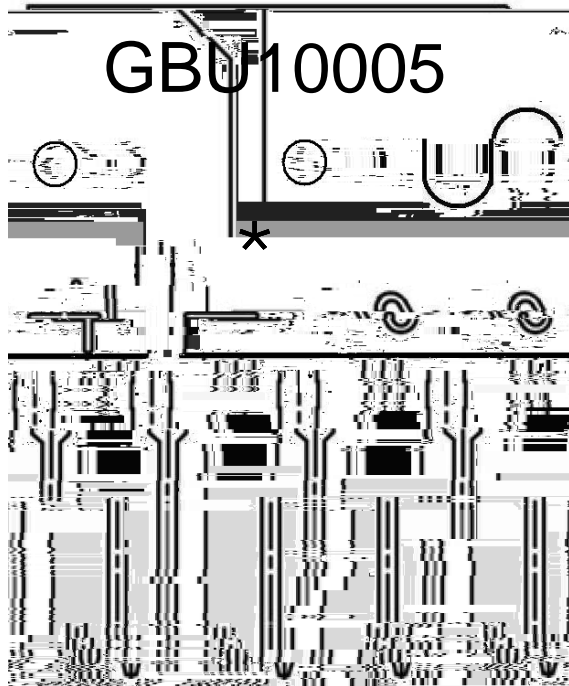


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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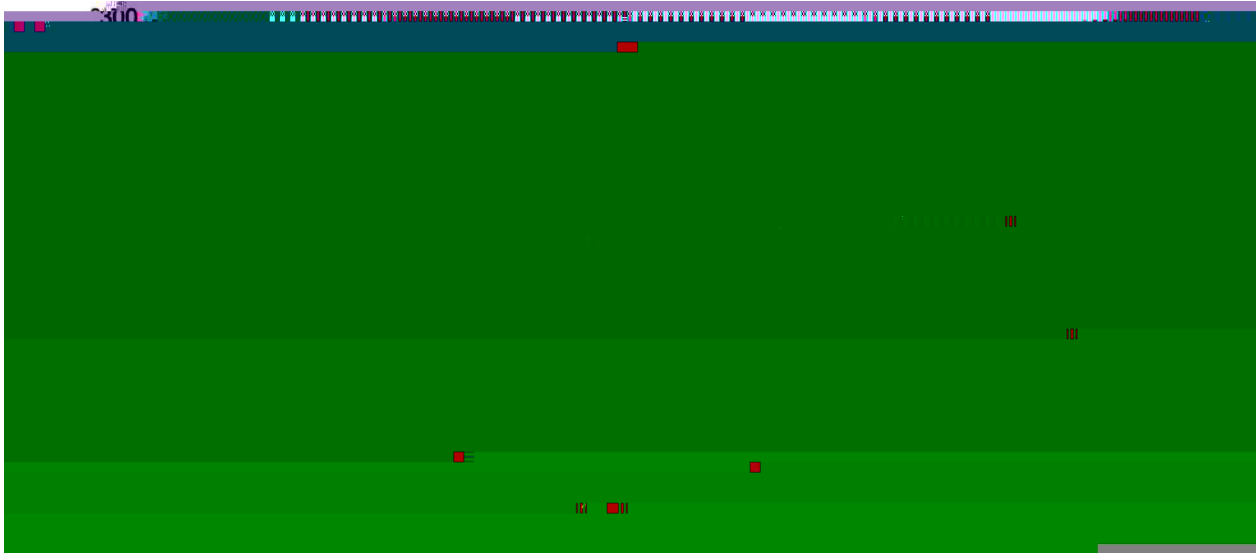
y ÿD Z W A k ÿD Z J

4 U Z K

GBU10005: Product Type.

****: Lot No. Code, code change with Lot No.

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- 1o ~ %o 25 %d150 - k 60 %90sec;
 2o Q 255 r5 - k 4 Ò 5 r0.5sec;
 3o D N ò i Ò0 , 2 %d10 - /sec.

Note:

- 1.Preheating:25~150 - , Time:60~90sec.
 2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.
 3. Cooling Speed: 2~10 - /sec.

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y 270 r5 -

y 10 r1 sec.

Temp.:270±5

Time:10±1 sec

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Package Type β m ù	Units g m ô h					Dimension g m d Ê (unit ! cm³)		
	Ⓜ /β	Ⓜ β/ç	Ⓜ /ç	Ⓜ ç/±	Ⓜ /±	Ⓜ β	Ⓜ ç	Ⓜ ±
Ⓜ	-	-	Ⓜ	Ⓜ	Ⓜ	-	Ⓜ xⓂ x9	Ⓜ x2 x2

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