/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating							Unit
		GBU 6005	GBU 601	GBU 602	GBU 604	GBU 606	GBU 608	GBU 610	
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)	$I_{F(AV)}$	6							A
Maximum Average Forward Rectified Current @T_C=100 (without heatsink)		2.8							A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	175							A
I^2t Rating for Fusing (t<8.3ms)	I^2t	127							A^2s
Typical Junction Capacitance Per Element (Note1)	C_J	50							pF
Typical Thermal Resistance (Note2)	$R_{\theta Jc}$	2.5							/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.

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Rating	Unit
Maximum Forward Voltage	V_F	I_F=3.0A	1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	T_a=25	5.0	μA
		T_a=125	500	

/ Electrical Characteristic Curve

FIG.1-FORWARD CURRENT DERATING CURVE

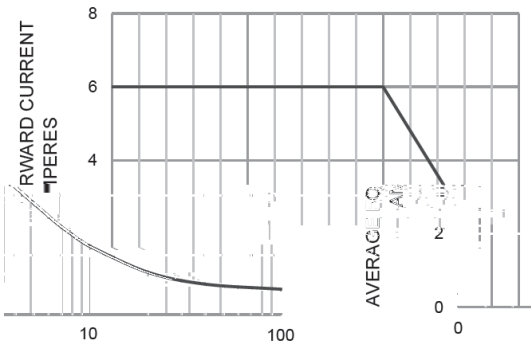
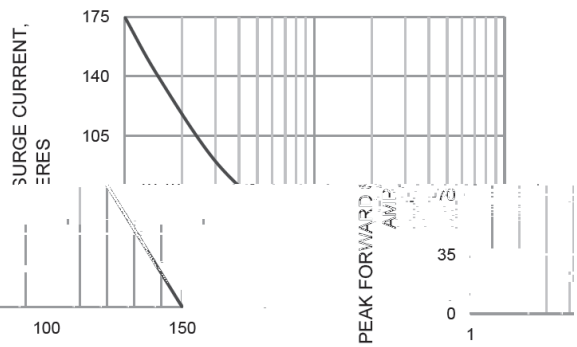


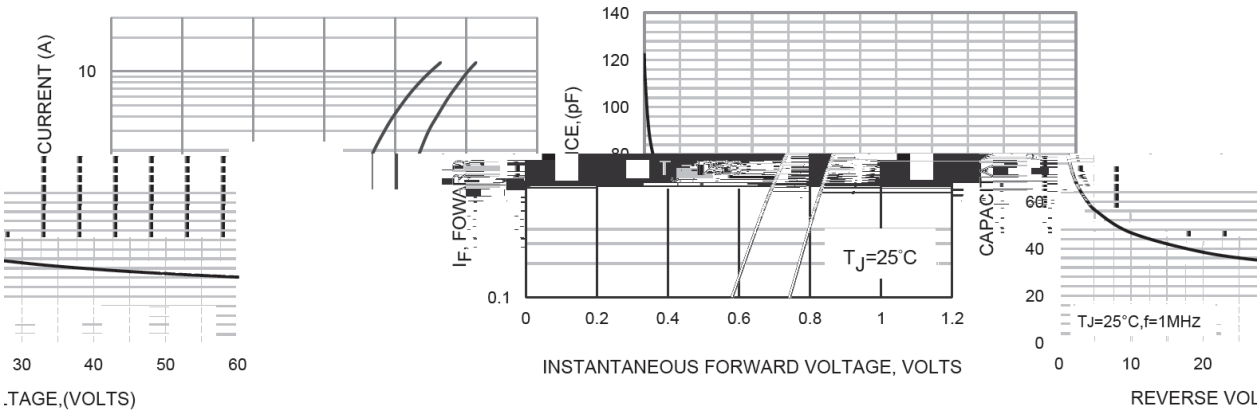
FIG.2-MAXIMUM FOWARD SURGE CURRENT



MBER OF CYCLES AT 60Hz

CASE TEMPERATURE, °C

NUM

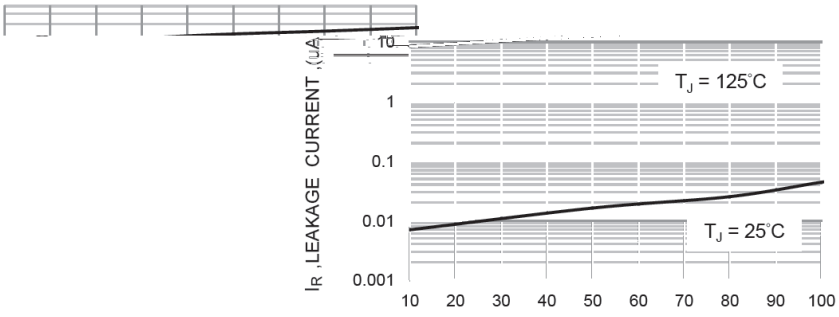


.TAGE,(VOLTS)

INSTANTANEOUS FORWARD VOLTAGE, VOLTS

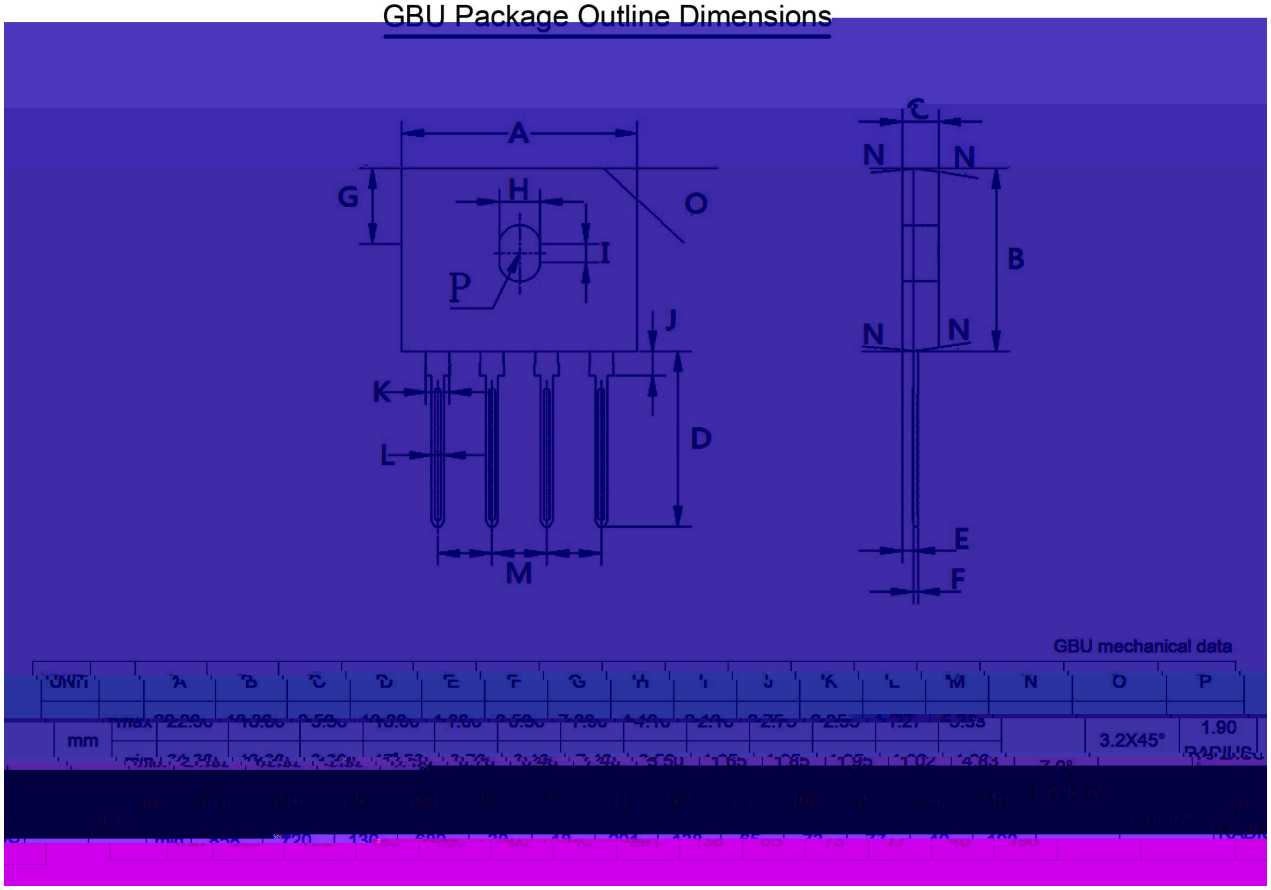
REVERSE VOL

FIG.5-TYPICAL REVERSE CHARACTERISTICS

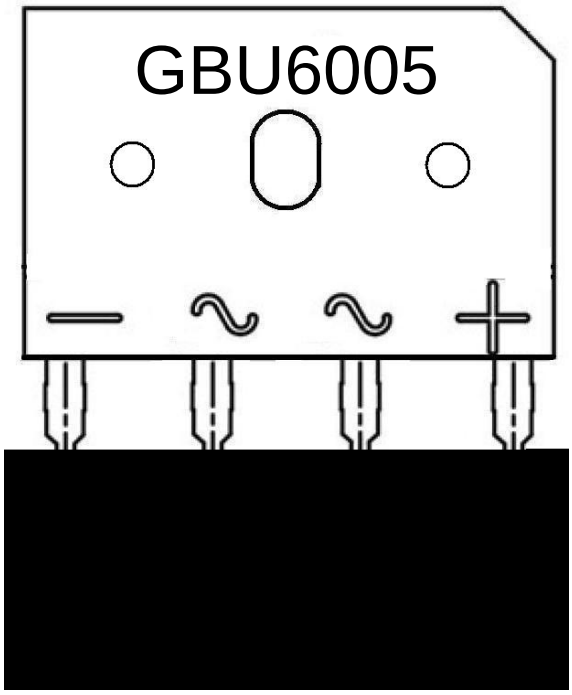


/ Package Dimensions

GBU Package Outline Dimensions

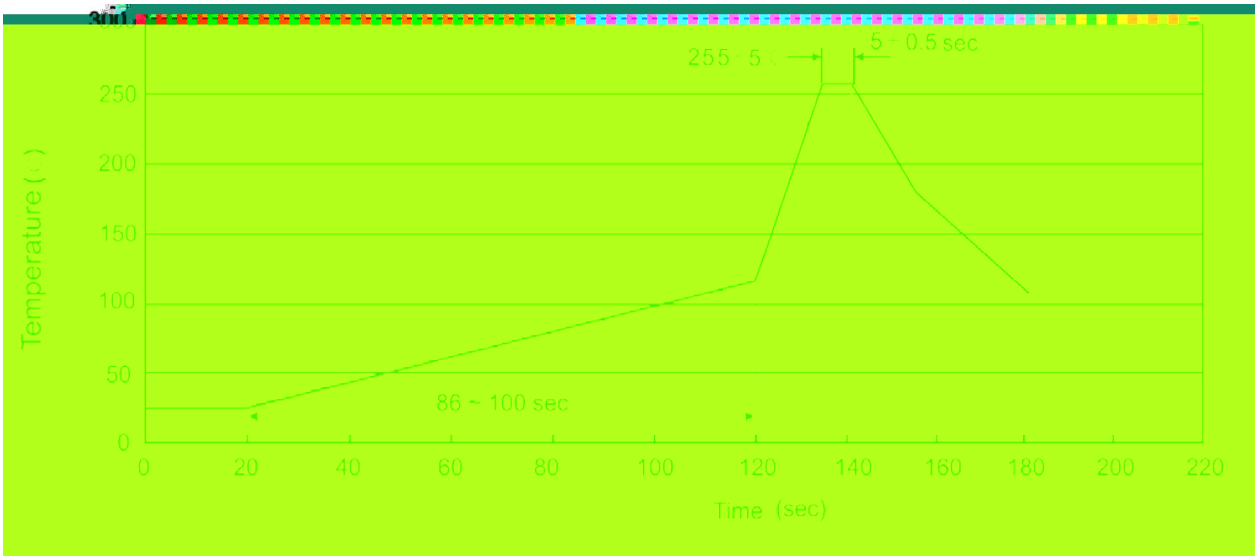


/ Marking Instructions



GBU6005: Product Type.
****: Lot No. Code, code change with Lot No

( ) / Temperature Profile for Dip Soldering(Pb-Free)



					Note:	
1		25 150		60 90sec;	1.Preheating:25~150 , Time:60~90sec.	
2		255 5		5 0.5sec;	2.Peak Temp.:255 5 , Duration:5 0.5sec.	
3			2 10 /sec.		3. Cooling Speed: 2~10 /sec.	

/ Resistance to Soldering Heat Test Conditions

270 5		10 1 sec.	Temp.:270±5	Time:10±1 sec	

/ Packaging SPEC.

/ BULK

Package Type	Units					Dimension		(unit mm^3)

/ TUBE

Package Type	Units	Dimension	(unit mm^3)