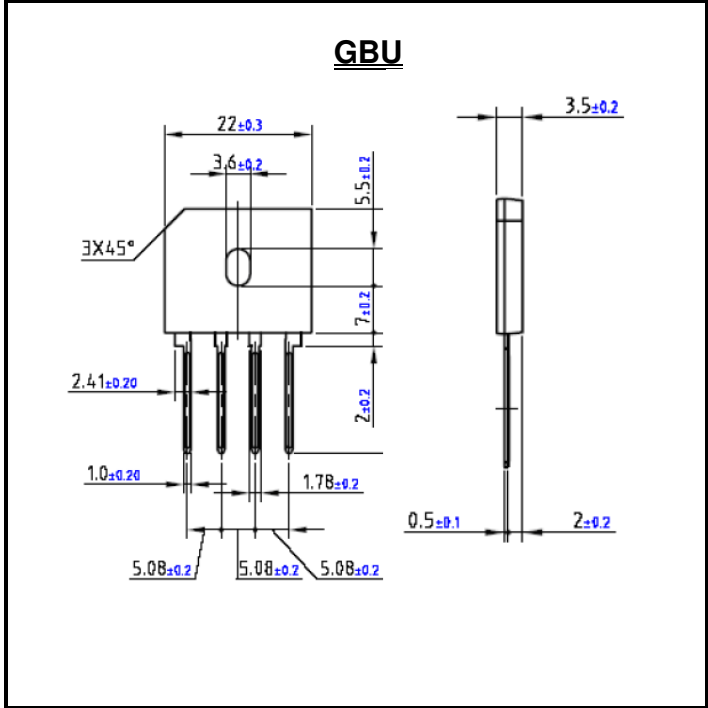


GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE – 800Volts
FORWARD CURRENT – 25 Amperes

- FEATURES**
- Rating to 800V PRV
 - Ideal for printed circuit board
 - Case Material: Green molding compound, UL flammability classification 94V-0,(No Br. Sb. Cl.) Halogen-free
 - UL recognition file # E95060
 - Reliable low cost construction utilizing molded plastic technique
- MECHANICAL DATA**
- Case: GBU
 - Polarity indicator: As marked on the body
 - Weight: 0.14 ounces, 3.9 grams
 - Component in accordance to RoHs 2002/95/EC
 - Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
 Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	GBU2508	UNIT	
Device marking code	Note	GBU2508	---	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	800	V	
Average Rectified Output Current	I _{F(AV)}	25 3.6	A	
Peak Forward Surge Current	I _{FSM}	350	A	
8.3ms single half sine-wave	I _{FSM}	280	A	
Peak Forward Surge Current	I _{FSM}	700	A	
1.0ms single half sine-wave	I _{FSM}	560	A	
I ² t Rating for fusing (t = 8.3ms)	I ² t	325	A ² S	
Storage temperature range	T _{STG}	-55 to +150	°C	
Operating junction temperature range	T _J	-40 to +175	°C	
PARAMETER	TEST CONDITIONS	SYMBOL	Max.	UNIT
Forward Voltage (1)	I _F =12.5A T _J =25°C	V _F	1.05	V
Leakage Current	V _R =800V T _J =25°C	I _R	10	uA
THERMAL CHARACTERISTIC	SYMBOL	Typical	UNIT	
Typical Junction Capacitance per element (Note 1)	C _j	93	pF	
Typical thermal resistance_Junction to Case (2)	R _{θJC}	1.7	°C/W	
Typical thermal resistance_Junction to Lead (3)	R _{θJL}	1.0	°C/W	

Note : (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC
 (2) Thermal Resistance Junction to Case, device mounted on heatsink
 (3) Thermal Resistance Junction to Lead, device mounted on heatsink

FIG.1- FORWARD CURRENT DERATING CURVE

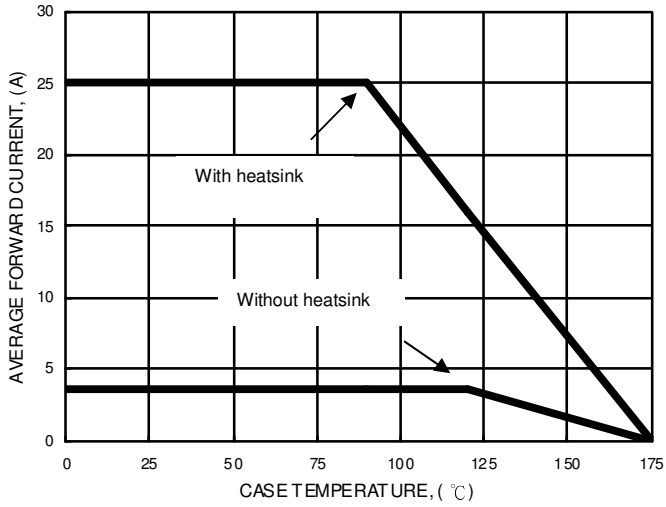


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

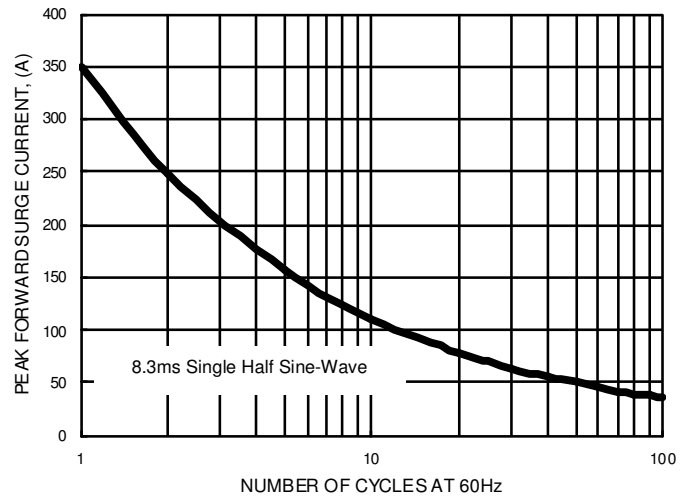


FIG.3- TYPICAL FORWARD CHARACTERISTICS

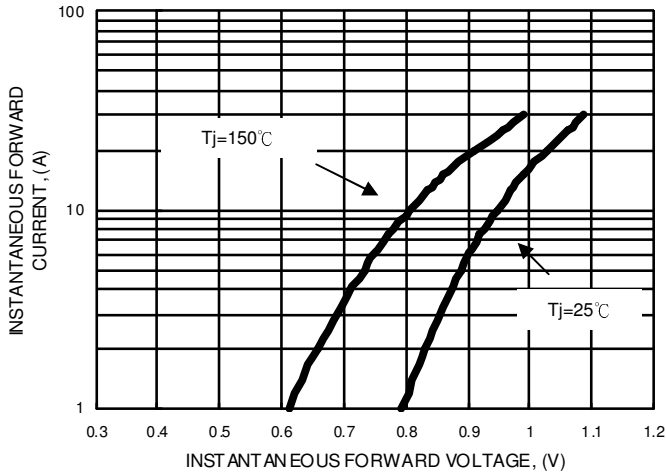


FIG.4- TYPICAL JUNCTION CAPACITANCE

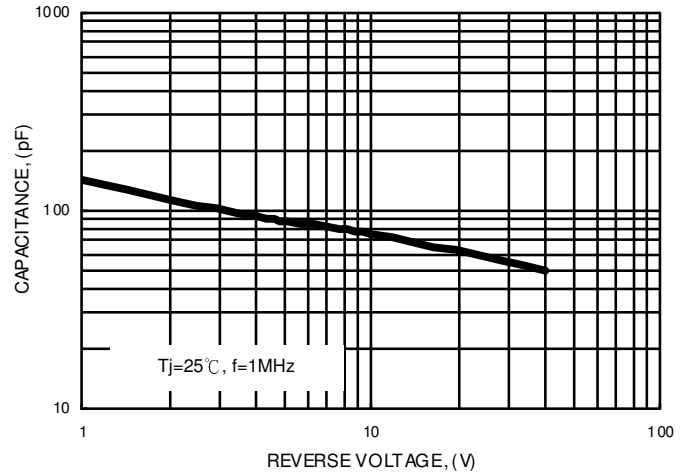
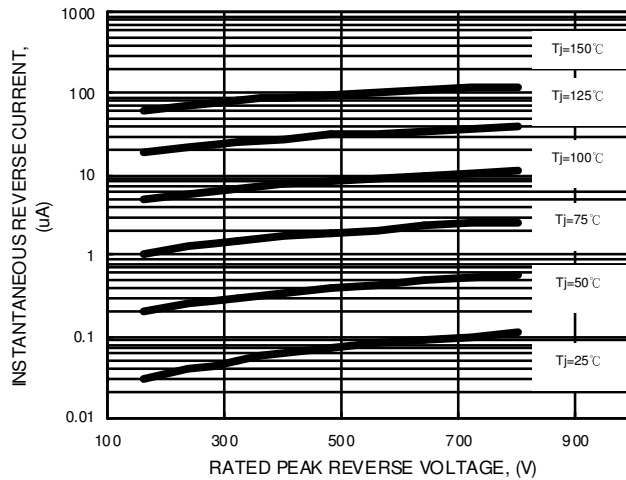


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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