

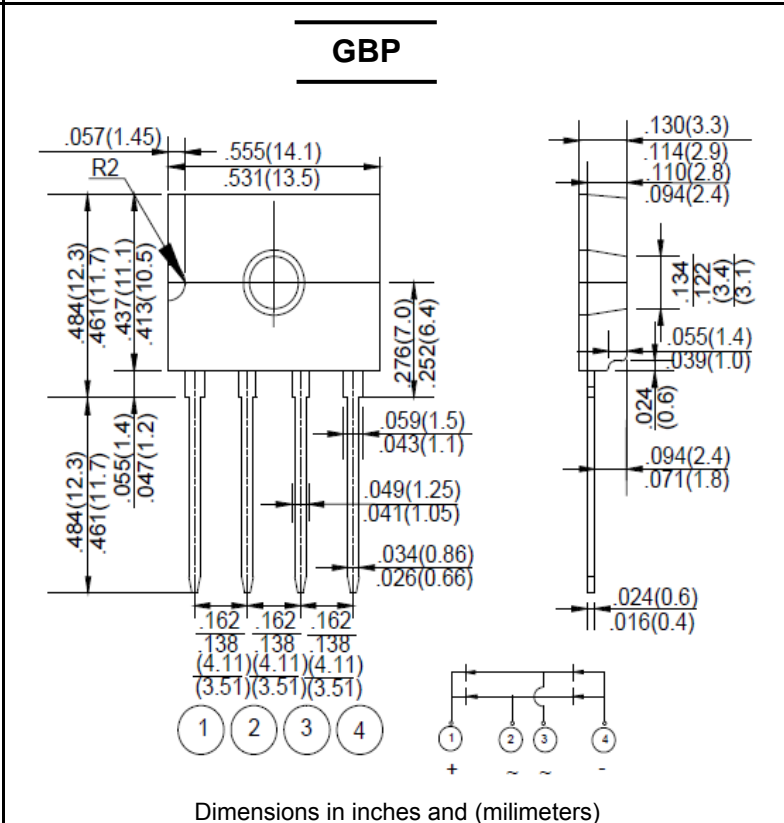
GLASS PASSIVATED BRIDGE RECTIFIERS	REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 4.0 Amperes
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FEATURES

- Glass passivated chip junction
- High case dielectric strength
- High surge current capability
Ideal for printed circuit board
- The plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Polarity : As marked on Body
- Terminal : Plated leads solderable per MIL-STD 202E, Method 208C
- Mounting position : Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave ,60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	GBP4005	GBP401	GBP402	GBP404	GBP406	GBP408	GBP410	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	v
Maximum RMS Bridge Input 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 Output Current @ T _A =50°C (Note1)	I _(AV)	4.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I _{FSM}	135							A
Maximum Forward Voltage Drop Per Bridge Element at 4.0A Peak	V _F	1.1							v
I ² t Rating for Fusing(t<8.3ms)	I ² t	75.63							A ² s
Maximum DC Reverse Current@ T _A =25°C at Rated DC Blocking Voltage @ T _A = 100 °C	I _R	5.0 500.0							µA
Typical Thermal Resistance Per leg (Note2)	R _{θJA}	55							°C/W
	R _{θJL}	15							
Storage Temperature Range	T _{STG}	-55to + 150							°C

Note:1.Mounted on glass epoxy PC board with 1.3mm 2 solder pad.
 2.Measured at 1.0MHz and applied reverse voltage of 4.0V D.C..

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

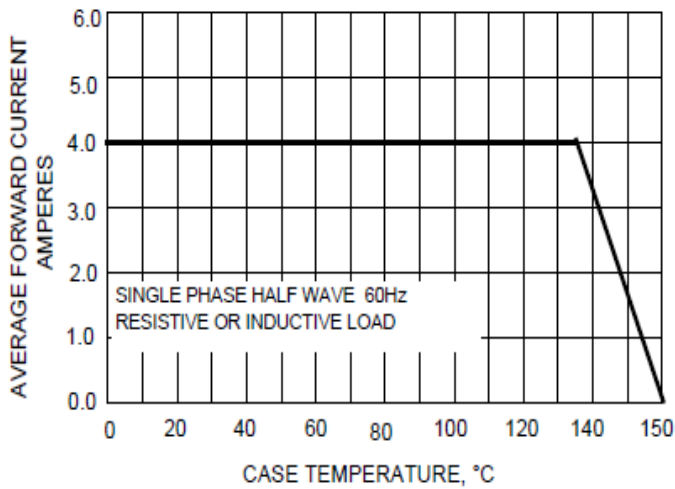


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

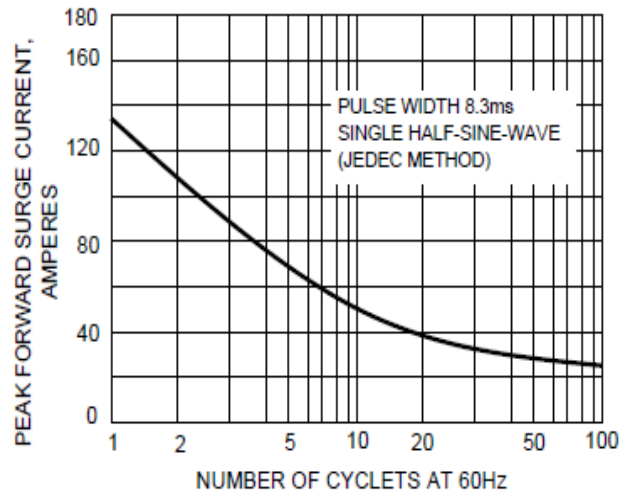


FIG.3-TYPICAL JUNCTION CAPACITANCE

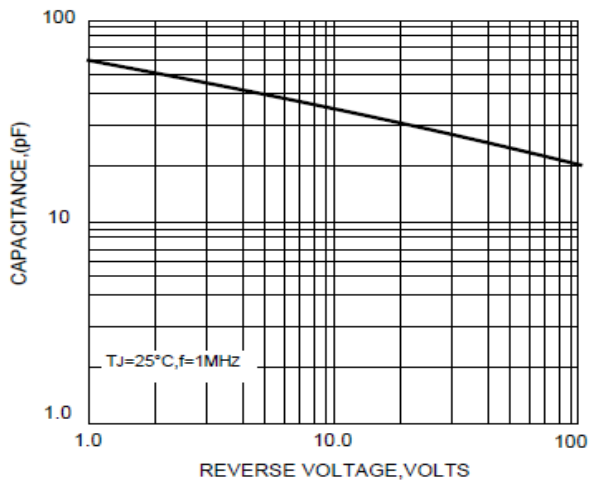


FIG.4-TYPICAL FORWARD CHARACTERISTICS

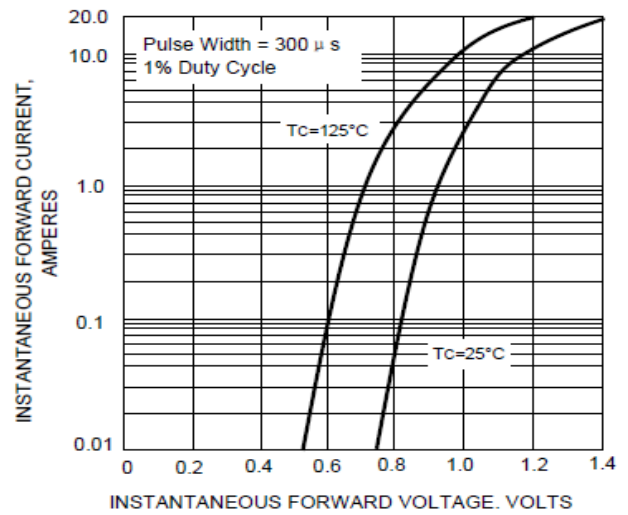


FIG.5-TYPICAL REVERSE CHARACTERISTICS

