

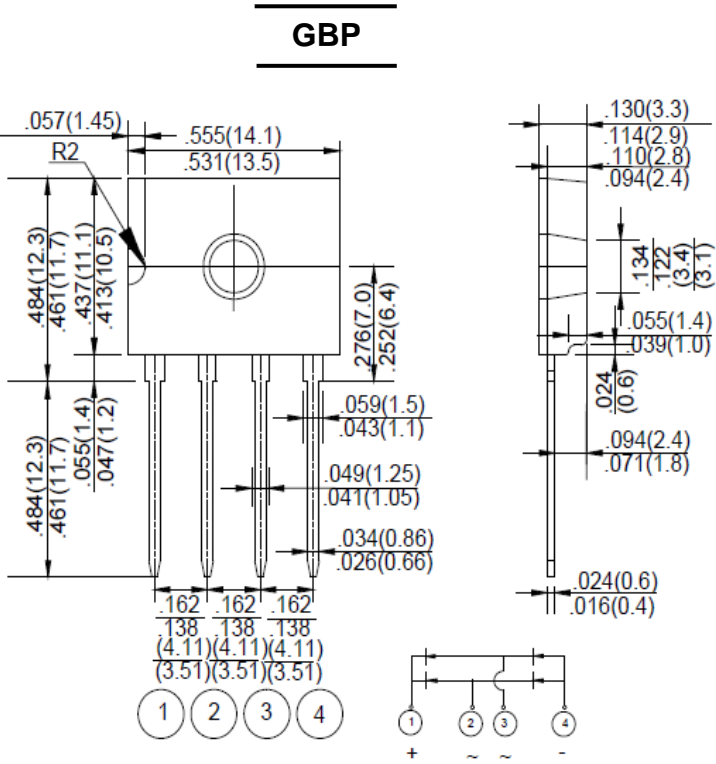
GLASS PASSIVATED BRIDGE RECTIFIERS		REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 4.0 Amperes							
<p>FEATURES</p> <ul style="list-style-type: none"> • Glass passivated chip junction • High case dielectric strength • High surge current capability • Ideal for printed circuit board • The plastic material has UL flammability classification 94V-0 <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Polarity : As marked on Body • Terminal : Plated leads solderable per MIL-STD 202E, Method 208C • Mounting position : Any 		<p style="text-align: center;">GBP</p>  <p style="text-align: center;">Dimensions in inches and (millimeters)</p>							
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
<p>Note:1.Mounted on glass epoxy PC board with 1.3mm 2 solder pad.</p> <p>2.Measured at 1.0MHz and applied reverse voltage of 4.0V D.C..</p>									

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

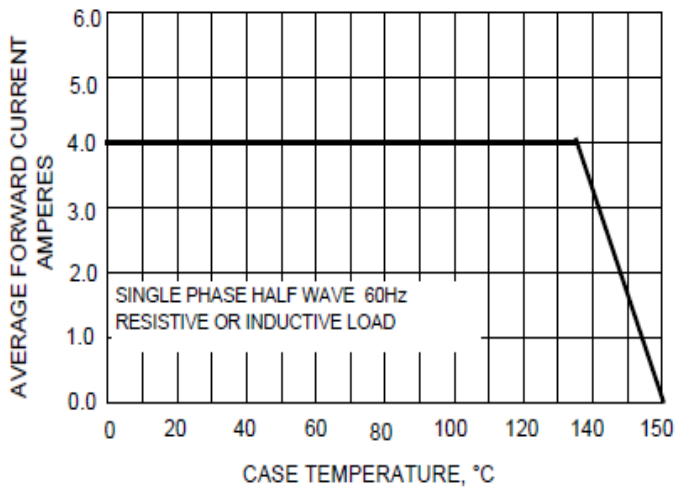


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

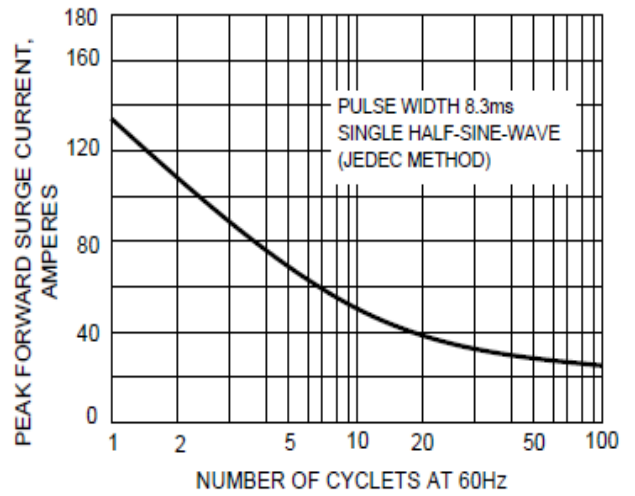


FIG.3-TYPICAL JUNCTION CAPACITANCE

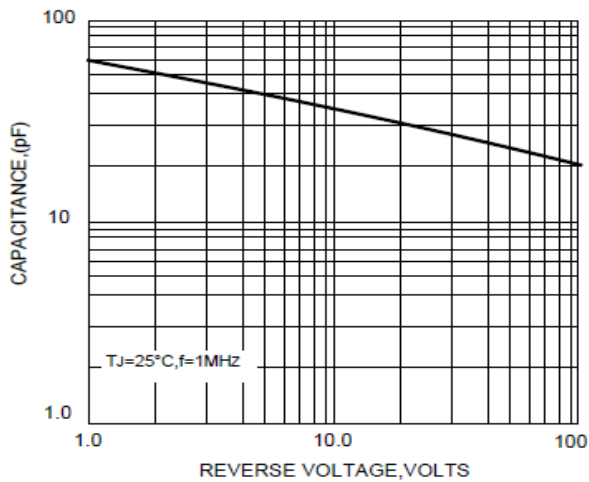


FIG.4-TYPICAL FORWARD CHARACTERISTICS

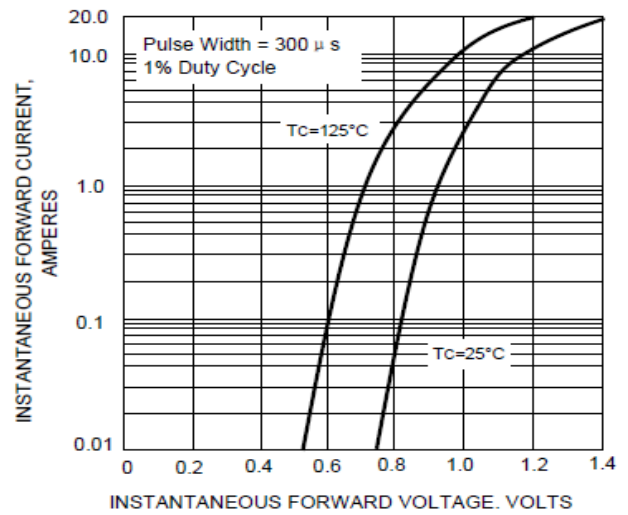


FIG.5-TYPICAL REVERSE CHARACTERISTICS

