GBP407

GLASSPASSIVATED BRIDGERECTIFIERS
REVERSE VOLTAGE **1000**Volts
FORWARD CURRENT **- 4.0** Amperes

FEATURES

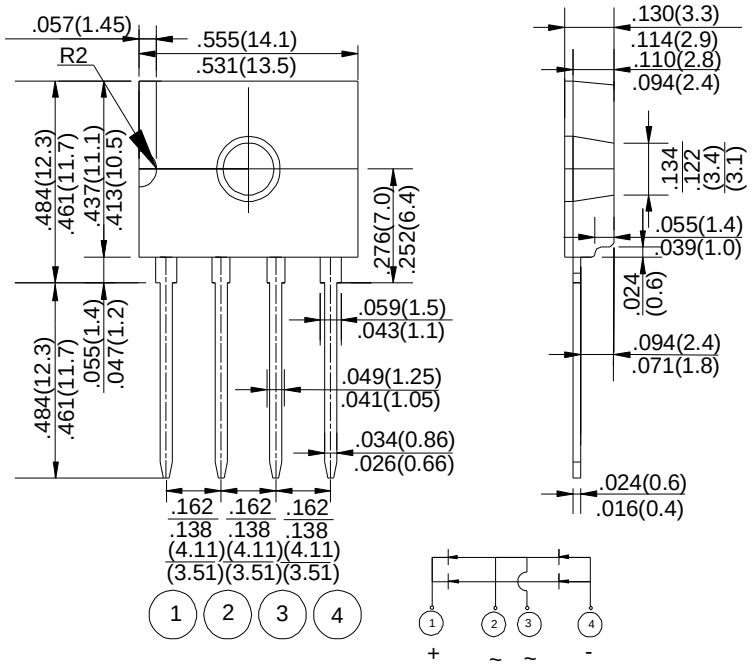
- Glass passivated chip junction
- High case dielectric strength
- High surge current capability

Ideal for printed circuit board

MACHANICAL DATA

- Terminal:Plated leads solderable per MIL-STD 202E, Method 208C
- Case:UL-94 Class V-0 recognized Flane Retardant Epoxy
- Polarity:Polarity symbol marked on body
- Mounting position:any
- Lead Free Finish/RoHS Compliant

D3K



Dimensions in inches and (milimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	GBP407	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS Voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Rectified Output Current @ T_C=138℃ (with heatsink)	$I_{(AV)}$	4	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	135	A
Maximum Forward Voltage at 2.0A DC	V_F	1.1	V
I^2t Rating for Fusing (t<8.3ms)	I^2t	64.84	A^2s
Typical Thermal Resistance without heatsink	$R_{\theta Ja}$	55	℃/W
with heatsink	$R_{\theta JC}$	1.5	℃/W
without heatsink	$R_{\theta JL}$	15	℃/W
Maximum DC Reverse Current @ T_a=25℃	I_R	10.0	μA
at Rated DC Blocking Voltage @ T_a=125℃	I_R	500	μA
Operating Temperature Range	T_J	-55 to +150	℃
Storage Temperature Range	T_{STG}	-55 to +150	℃

RATING AND CHARACTERTIC CURVES GBP407

FIG.1-DERATING CURVE OUTPUT
RECTIFIED CURRENT

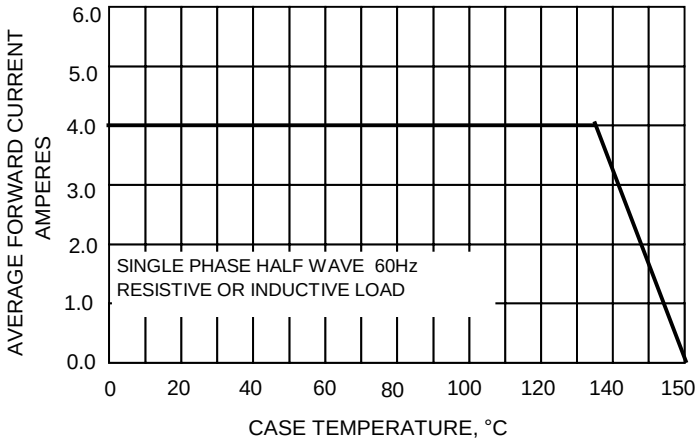


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

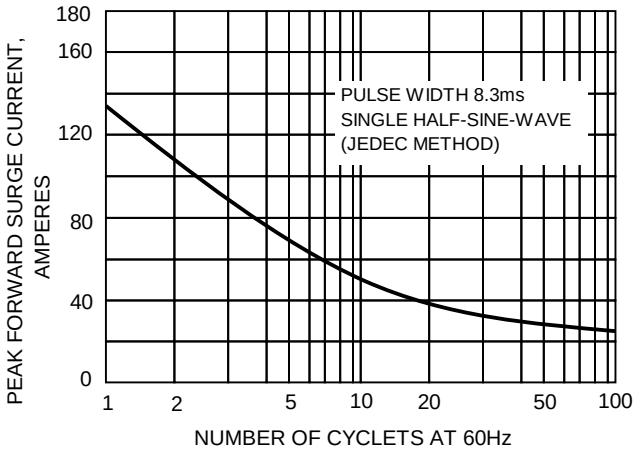


FIG.3-TYPICAL JUNCTION CAPACITANCE

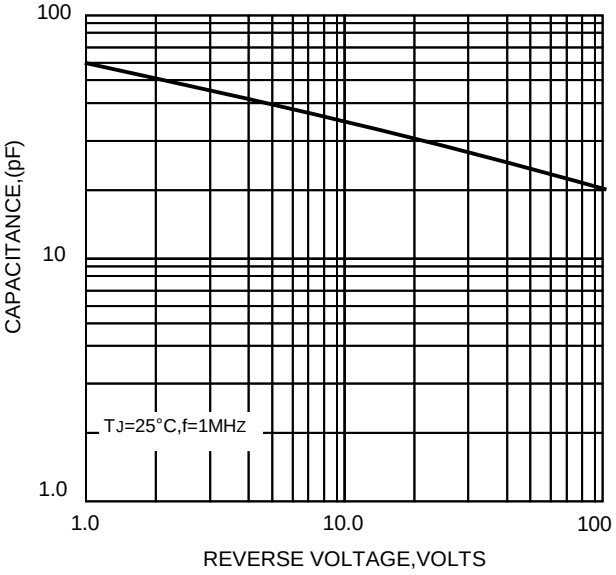


FIG.3-TYPICAL FORWARD CHARACTERISTICS

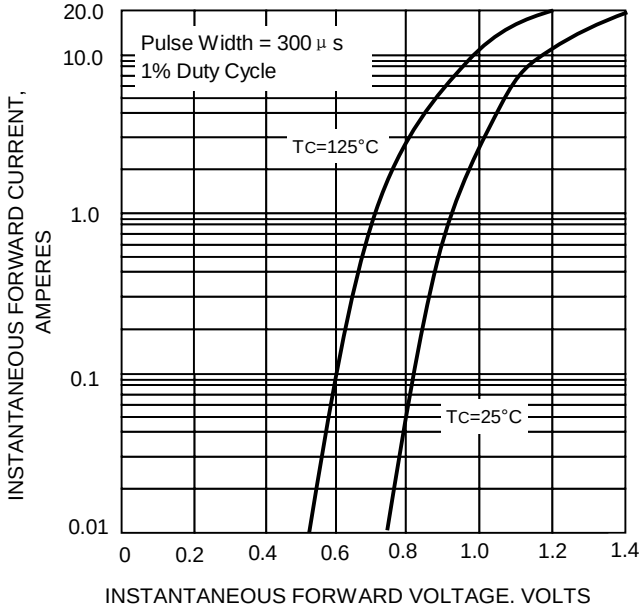


FIG.5-TYPICAL REVERSE CHARACTERISTICS