



GBPC 15A/25A/35A SERIES

**HIGH CURRENT 15/25/35 AMPS.
SINGLE PHASE GLASS
PASSIVATED BRIDGE RECTIFIERS**

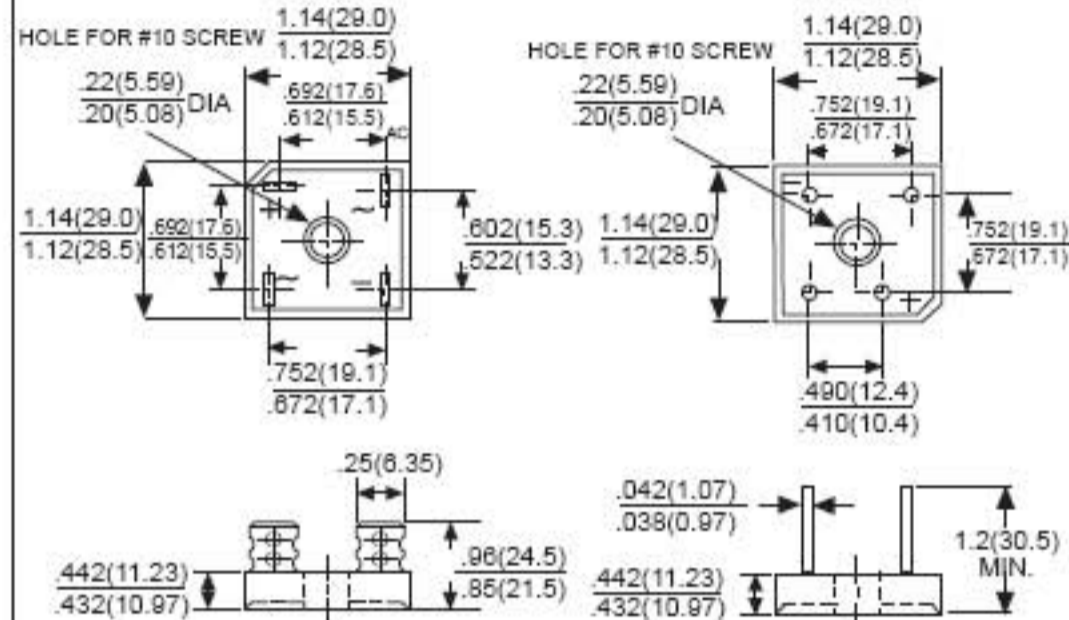
Voltage Range
50 to 1000 Volts
Current
15.0/25.0/35.0 Amperes

Features

- The plastic material used carries Underwriters Laboratory Flammability Recognition 94V-0
- Integrally molded heatsink provide very low thermal resistance for maximum heat dissipation
- Surge overload ratings from 300 amperes to 400 amperes
- Terminals solderable per mil-std-202, Method 208(For wire type)
- Typical I_r less than 0.2uA
- High temperature soldering guaranteed: 260°C/ 10 seconds/ .375", (9.5mm) lead lengths(For wire type)
- Isolated voltage from case to lead over 2500 volts

GBPC

GBPC-W



Dimensions in inches and (millimeters)

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%

Type Number		GBPC 15/25/35 005	GBPC 15/25/35 01	GBPC 15/25/35 02	GBPC 15/25/35 04	GBPC 15/25/35 06	GBPC 15/25/35 08	GBPC 15/25/35 10	UNITS	
Maximum Repetitive 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 @ $T_c = 55^\circ C$	$I_{F(AV)}$	GBPC15			15.0	GBPC25			25.0	A
		GBPC35			35.0					
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load(JEDEC method)	I_{FSM}	GBPC15			300	GBPC25			300	A
		GBPC35			400					
Maximum Instantaneous Forward Voltage Drop Per Leg at Specified Current	V_F	GBPC15 7.5A	GBPC25 12.5A	GBPC35 17.5A	1.1				V	
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Leg	I_R				5				uA	
Typical Thermal Resistance(Note 1)	R_{JC}				1.5				°C/W	
Operating and Storage Temperature Range	T_J, T_{STG}				-50 to +150				°C	

NOTES: 1. Thermal Resistance from Junction to Case.
2. Suffix "W"-Wire Lead Structure/"M"-Terminal Location Face to Face.

RATING AND CHARACTERISTIC CURVES GBPC15/25/35 SERIES



FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

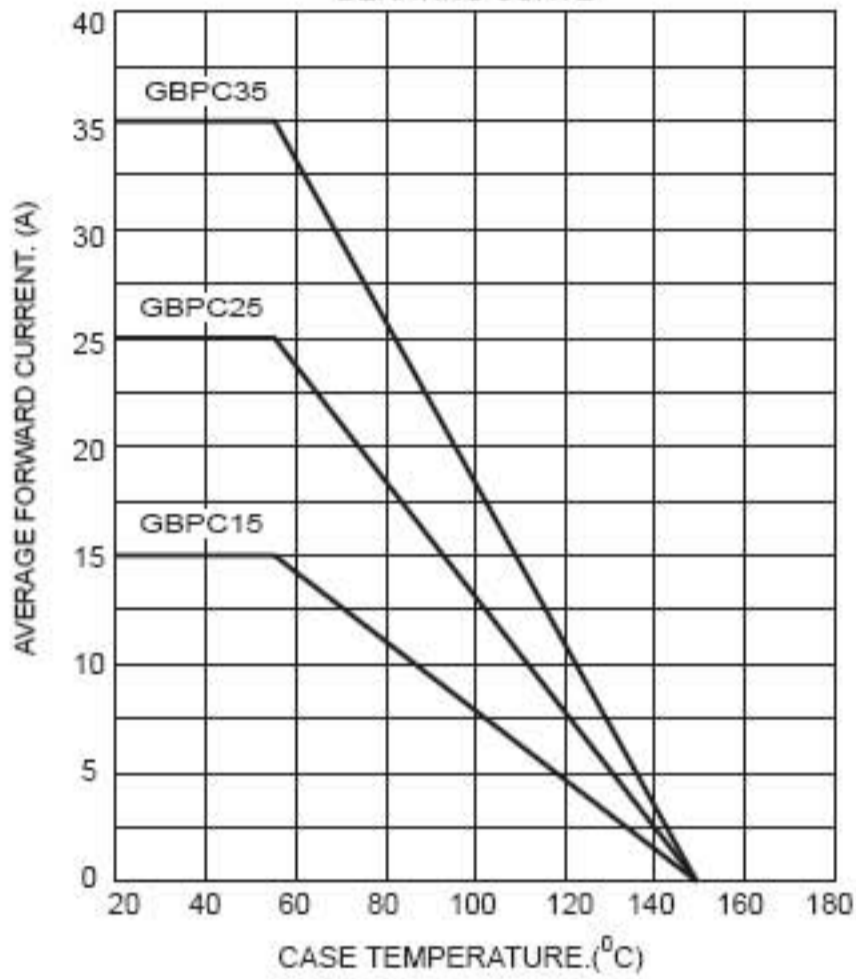


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

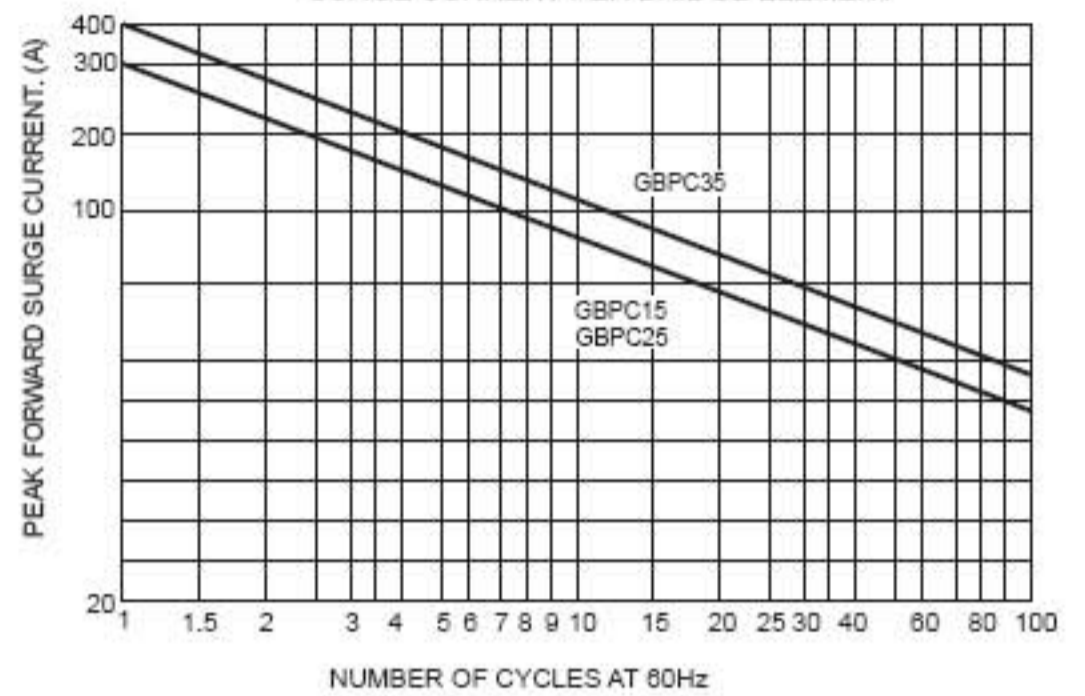


FIG.3-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

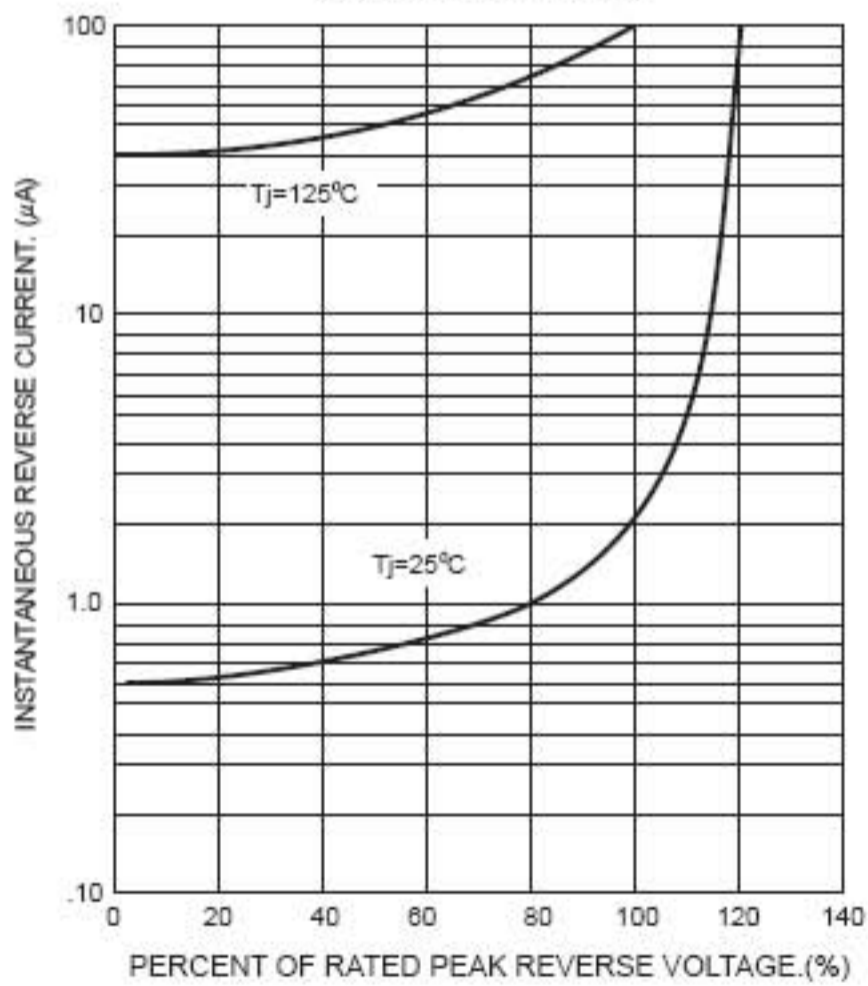


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

