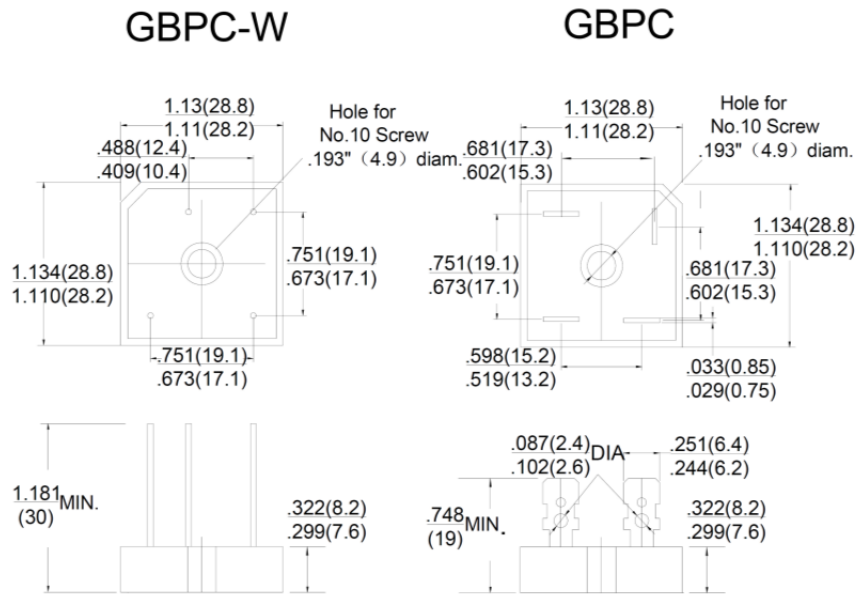


# GLASS PASSIVATED BRIDGE RECTIFIERS

## GBPC(W) 35A SERIES 50 to 1000V 35A

### FEATURES

- Glass passivated chip
- High surge forward current capability
- General purpose 1 phase Bridge rectifier applications



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Ratings 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	GBPC35("W" is a lead pin, i.e. GBPC-W, contrary to GBPC)							Units
		005/W	01/W	02/W	04/W	06/W	08/W	10/W	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Average Rectified Output Current (Notes1)	$I_o$	35.0							Amp
Peak Forward Surge Current, 60HZ sine wave, 1 cycle, $T_a=25^\circ C$	$I_{FSM}$	400							Amp
Maximum Forward Voltage at $I_{FM}=17.5A$ , Pulse measurement, Rating of per	$V_F$	1.1							Volts
Maximum DC Reverse Current at rated $V_{RM}=V_{RRM}$ , Pulse measurement, Rating of per diode	$I_R$	10							uAmp
$I^2t$ Rating for fusing 1ms≤t<8.3ms $T_j=25^\circ C$ · Rating of per diode	$I^2t$	660							A <sup>2</sup> S
Typical Thermal Resistance ( Note 2)	$R_{\theta JC}$	2.2							°C/W
Dielectric Strength, Terminals to case · AC 1 minute	$V_{dis}$	2.5							Kv
Operating Temperature Range	$T_J$	-55 to +150							°C
Storage Temperature Range	$T_{STG}$	-55 to +150							°C

#### Notes:

1. 60Hz sine wave, R-load With heatsink  $T_c=55^\circ C$
2. Between junction and case, With heatsink.

### RATINGS AND CHARACTERISTIC CURVES

FIG1:Io-Ta Curve

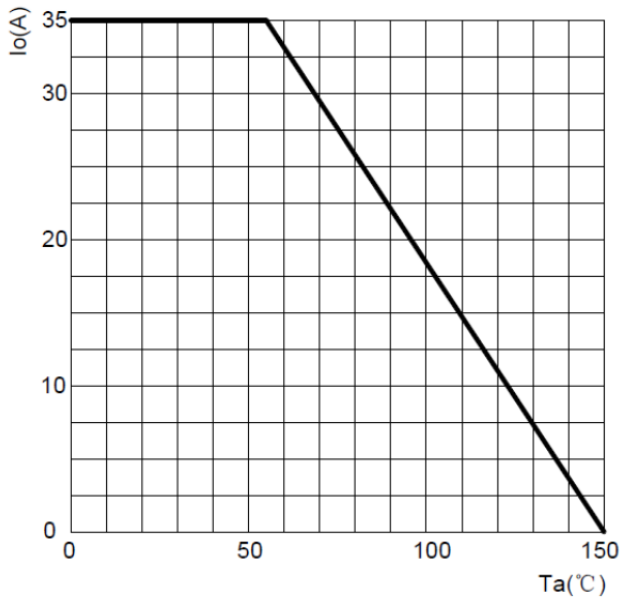


FIG2:Surge Forward Current Capadility

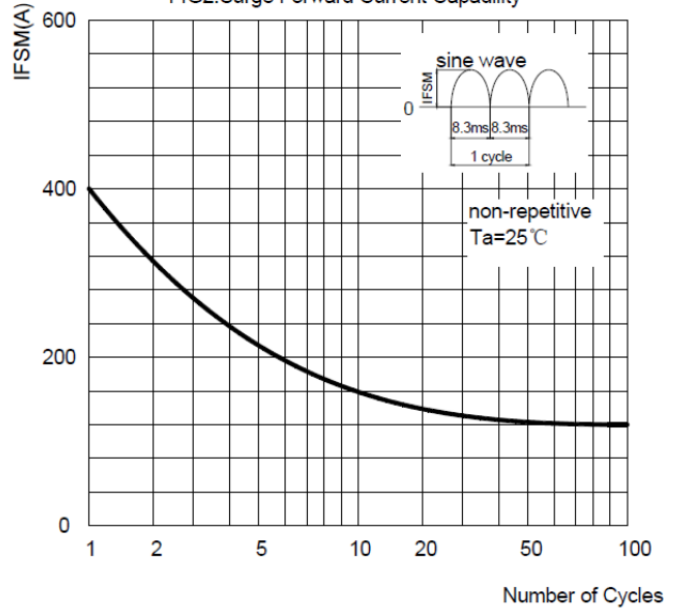


FIG3:Instantaneous Forward Voltage

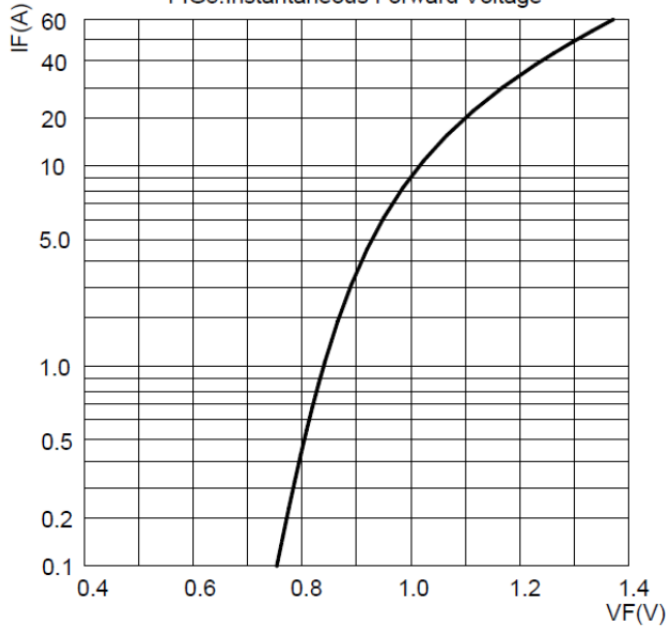


FIG4:Typical Reverse Characteristics

