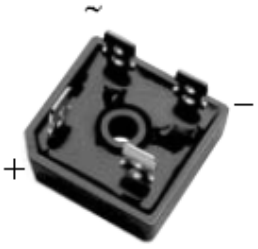
35A Glass Passivated Bridge Rectifier

Features

- Glass passivated chip junction
- Integrally molded heatsink provides very low thermal Resistance for Maximm heat dissipation
- Universal 3-way terminals; snap-on, wire wrap-around Or P.C.B mounting
- Typical I_R less than 0.3μA
- High forward surge current capability
- High temperature soldering guaranteed: 260˚C/10 seconds at 5lbs.(2.3kg) tension
- This series is UL recognized under component index, File number E194718



GBPC

Mechanical Data

Case:	GBPC, Molded plastic with heatsink integrally mounted in the bridge encapsulation
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated 0.25” (6.35mm) faston lugs
Polarity:	Polarity symbols molded on body
Mounting Position	See note 2
Mounting Torque	20in.-lb.Max
Weight:	21 grams

Maximum Ratings And Electrical Characteristics (T_{amb}=25˚C)

Symbol	Description	GBPC 35-005	GBPC 35-01	GBPC 35-02	GBPC 35-04	GBPC 35-06	GBPC 35-08	GBPC 35-10	Unit	Conditions
V_{RRM}	Max. Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Max. RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Max. DC blocking voltage	50	100	200	400	600	800	1000	V	

Symbol	Description	GBPC 35-005	GBPC 35-01	GBPC 35-02	GBPC 35-04	GBPC 35-06	GBPC 35-08	GBPC 35-10	Unit	Conditions
$I_{F(AV)}$	Max. Average Forward Rectified Output Current	35.0							A	See Fig.1
I_{FSM}	Peak Forward Surge Current	400							A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)
V_F	Max. Instantaneous Forward Voltage drop per leg	1.1							V	$I_{F(AV)}$=17.5A
I_R	Max. Reverse DC Current At Rated DC Blocking Voltage per leg	5.0							μA	T_C=25°C
		500							μA	T_C=125°C
I^2t	Rating for Fusing (1ms<t<8.3ms)	660							A^2s	
V_{ISO}	RMS Isolation Voltage from Case to Leads	2500							V	
C_J	Typical Junction Capacitance	300							pF	V_R=4V, f=1MHz
Rth_{JC}	Typical Thermal Resistance per leg	1.4							°C / W	Note 1
T_J,T_{STG}	Operating Junction and Storage Temperature Range	-65 to +150							° C	

Note: 1. Thermal Resistance from junction to Case per leg.

2. Bolt down on Heatsink with Silicone Thermal Compound Between and Mounting Surface for Maximum Heat Transfer with #10 Screw.

Typical Characteristics Curves

Fig.1-Max. Output Rectified Current

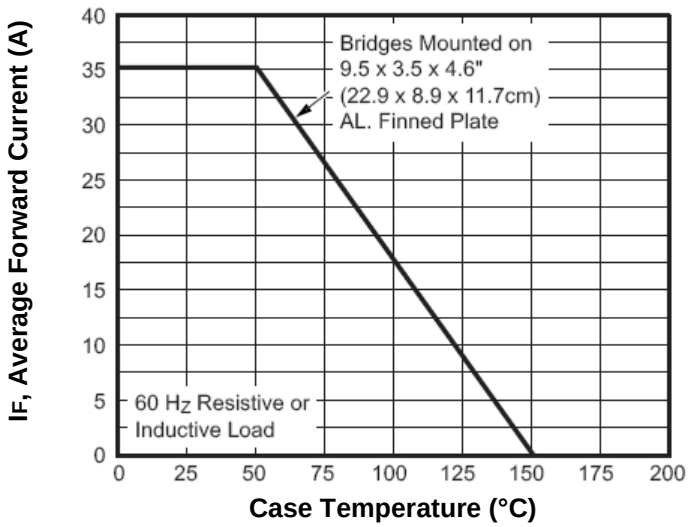


Fig.2-Max. Non-repetitive Peak Forward Surge Current per leg

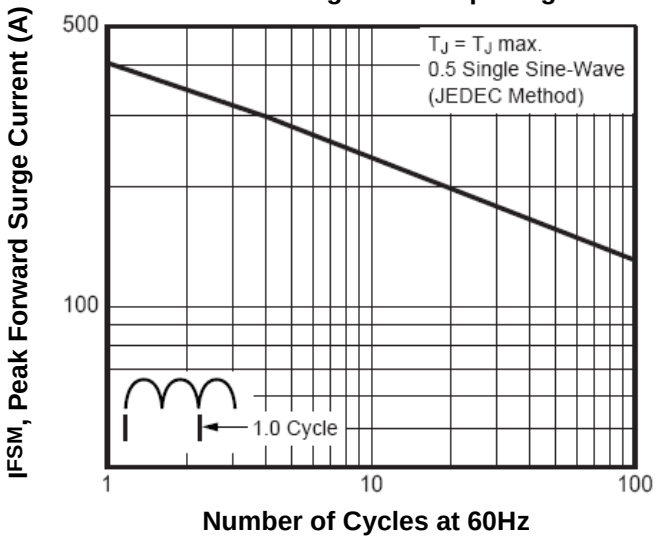


Fig.3-Typical Instantaneous Forward Characteristic per leg

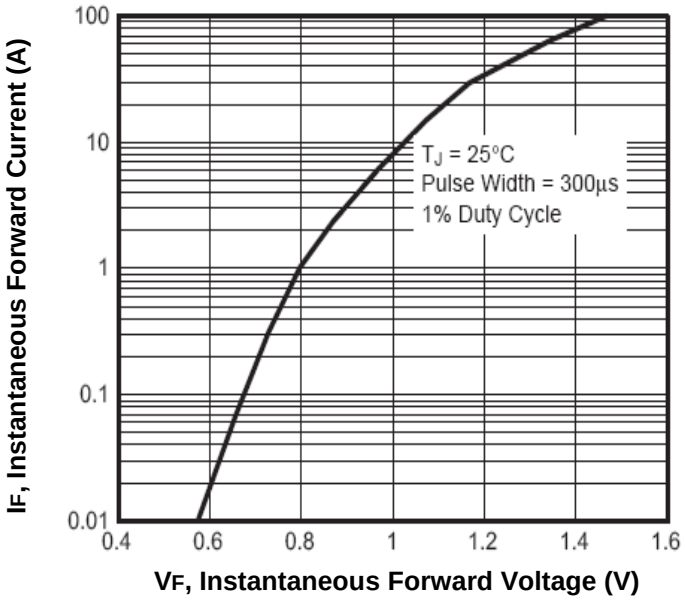


Fig.4-Typical Reverse Characteristics per leg

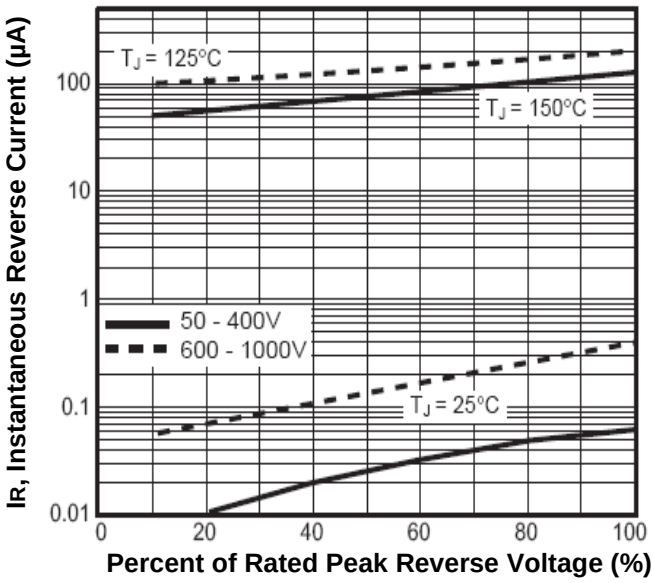
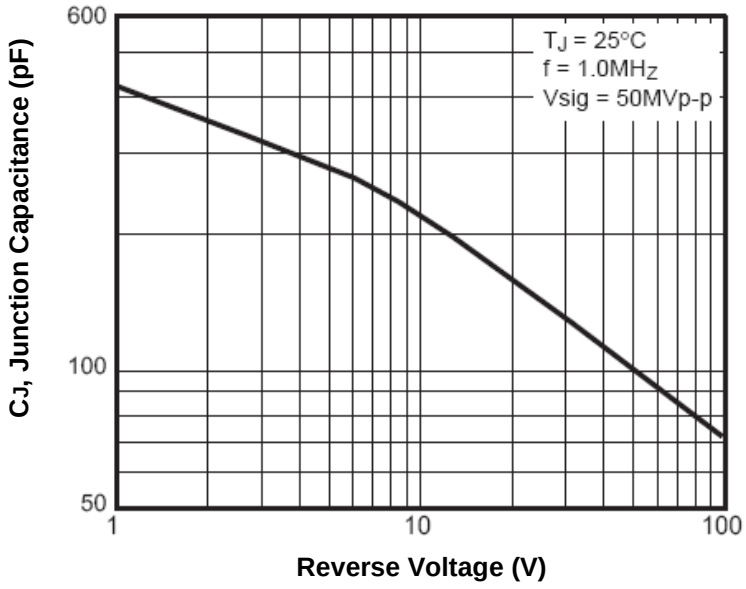
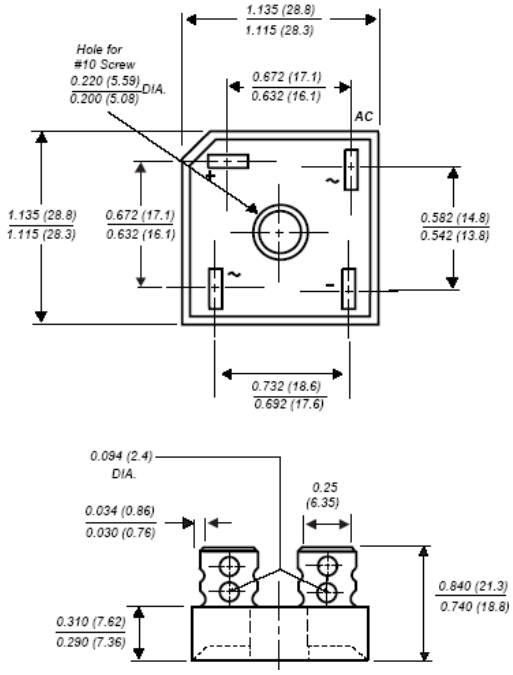


Fig.5-Typical Junction Capacitance per leg



Dimensions in inch (mm)



GBPC

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