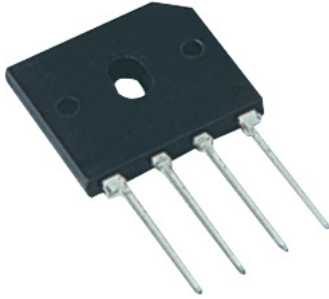# Low VF
Glass Passivated Bridge Rectifier

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Features

- Surge overload rating - 240 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- Mounting position: Any

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%

Characteristic	Symbol	Values	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	800	V
Maximum RMS Voltage	V_{RMS}	560	
Maximum DC Blocking Voltage	V_{DC}	800	
Maximum Average Forward (with heatsink Note 2) Rectified Current @ T_C = 100°C (without heatsink)	$I_{(AV)}$	15 3.2	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	240	
Maximum Forward Voltage at 7.5A DC	V_F	0.95	V
Maximum DC Reverse Current @ T_J = 25°C at Rated DC Blocking Voltage @ T_J = 125°C	I_R	10 500	μA
I^2t Rating for Fusing (t<8.3ms)	I^2t	200	A^2s
Typical Junction Capacitance Per Element (Note 1)	C_J	70	pF
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}		

Notes:
    1. Measured at 1MHz and applied reverse voltage of 4V DC
    2. Device mounted on 100mm × 100mm × 1.6mm Cu plate heatsink.
    3. The typical data above is for reference only

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Glass Passivated Bridge Rectifier

Rating and Characteristic Curves
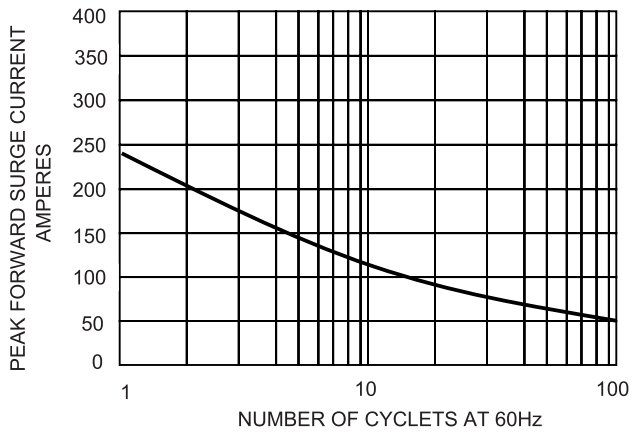
FIG.1-MAXIMUM FORWARD SURGE CURRENT
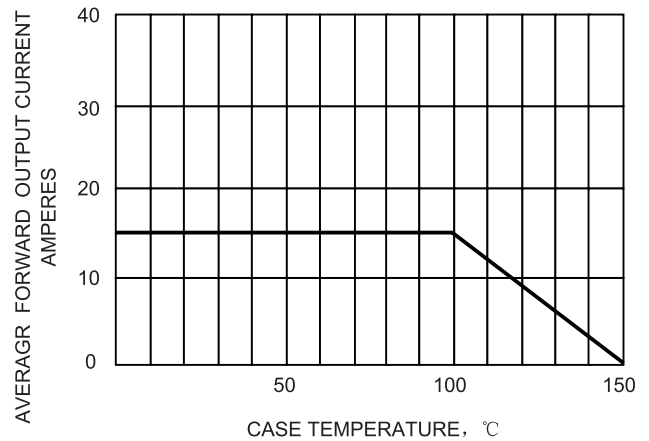
FIG.2- DERATING CURVE
OUTPUT RECTIFIED CURRENT

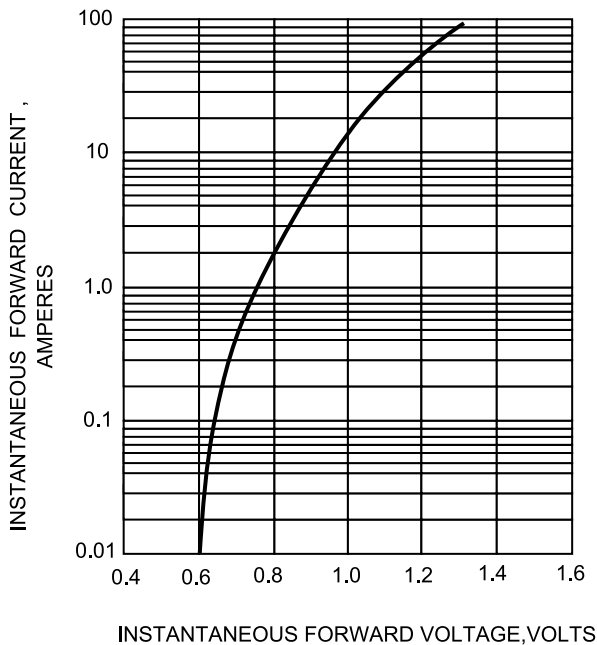FIG.3-TYPICAL FORWARD
CHARACTERISTICS

FIG.4-TYPICAL REVERSE
CHARACTERISTICS

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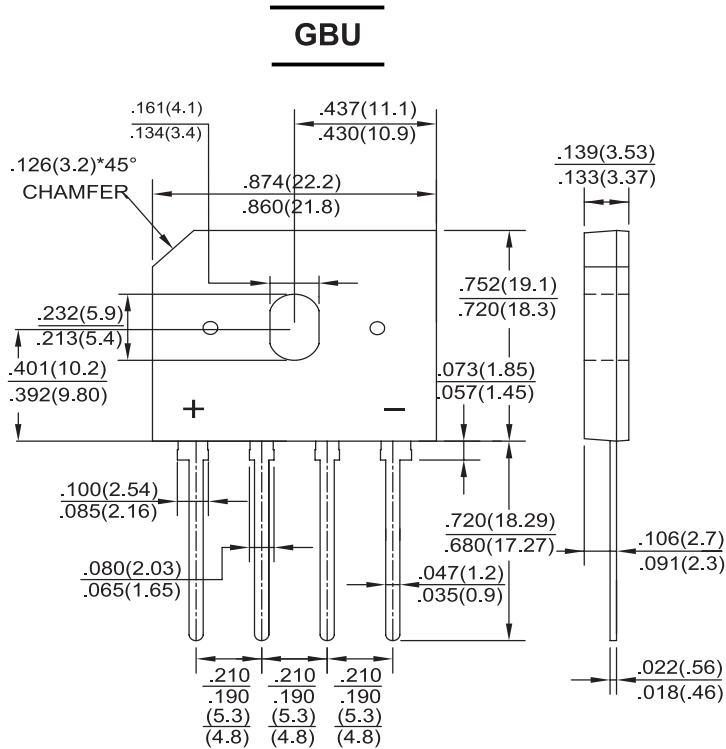Farnell.com/multicomp-pro
Element14.com/multicomp-pro

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Low VF
Glass Passivated Bridge Rectifier

Dimension:

GBU

.161(4.1)
.134(3.4)

.126(3.2)*45°
CHAMFER

.437(11.1)
.430(10.9)

.139(3.53)
.133(3.37)

.874(22.2)
.860(21.8)

.232(5.9)
.213(5.4)

.752(19.1)
.720(18.3)

.401(10.2)
.392(9.80)

+   −

.073(1.85)
.057(1.45)

.100(2.54)
.085(2.16)

.720(18.29)
.680(17.27)

.106(2.7)
.091(2.3)

.080(2.03)
.065(1.65)

.047(1.2)
.035(0.9)

.210   .210   .210
.190   .190   .190
(5.3)   (5.3)   (5.3)
(4.8)   (4.8)   (4.8)

.022(.56)
.018(.46)

Dimensions : Inches (Millimetres)
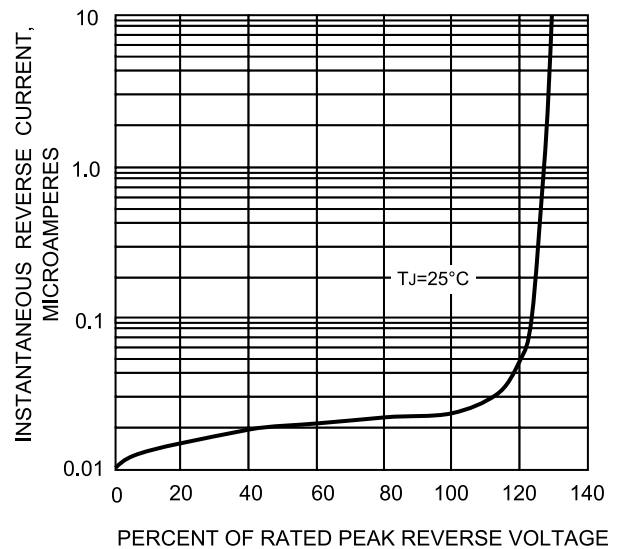
Part Number Table

Description	Part Number
Low VF Glass Passivated Bridge Rectifier	GBU1508F

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