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E502650

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- High Surge Overload Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 1.5°C/W Junction to Case (Note 2)
- Thermal Resistance: 25°C/W Junction to Ambient

Mechanical Data

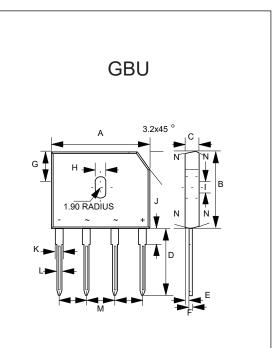
Mounting Torque: 5in-lbs

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBU2010S	GBU2010S	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	20A 3.5A	T _c = 90°C,With Heatsink T _A = 25°C,Without Heatsink
Peak Forward Surge Current	I _{FSM}	250A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V _F	1.0V	I _{FM} = 10A Per Diode; T _J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5µA 100uA	T _J = 25°C T _J = 125°C
Dielecric Strength	V _{ISO}	2.5KV	Terminals to Case, AC 1 Minute
Rating for Fusing	l²t	260 A ² s	t<8.3ms
Typical Junction Capacitance	CJ	80 pF	Measured at 1.0MHz, V _R =4.0V

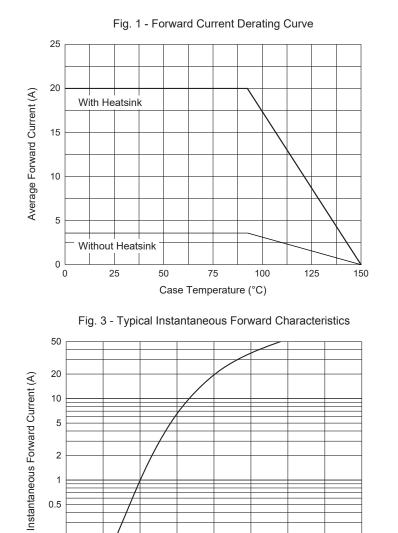
Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a 2. Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink. 20 Amp Single Phase Glass Passivated Bridge Rectifier 1000 Volts

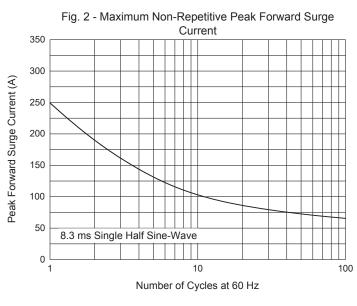


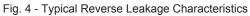
DIM	INC	INCHES		IM	NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
А	0.860	0.880	21.80	22.30	
В	0.720	0.740	18.30	18.80	
С	0.130	0.142	3.30	3.60	
D	0.690	0.717	17.50	18.20	
Е	0.030	0.039	0.76	1.00	
F	0.018	0.024	0.46	0.60	
G	0.290	0.310	7.40	7.90	
Н	0.140	0.160	3.50	4.10	
Ι	0.065	0.085	1.65	2.16	
J	0.060	0.096	1.52	2.45	
Κ	0.077	0.098	1.95	2.50	
L	0.040	0.050	1.02	1.27	
Μ	0.190	0.210	4.83	5.33	
Ν		7.0° TY	PICAL		

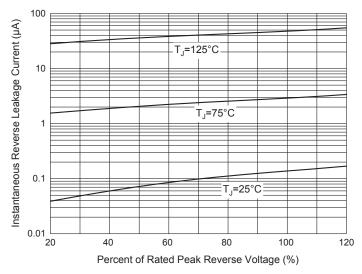


Curve Characteristics









0.2

0.1

0.8

1.0

Instantaneous Forward Voltage (V)

T_=25°C

1.4

1.2



Ordering Information

	Device	Packing
Part Number-BP		Bulk:20pcs/Tube,1Kpcs/Box,2Kpcs/Carton

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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