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## E502650

# Features

- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Halogen Free. "Green" Device (Note 2)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Glass Passivated Chip Junction

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 5 °C/W Junction to Case
- Thermal Resistance: 45 °C/W Junction to Ambient

GBP	
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4.0 Amp

**Glass Passivated** 

**Bridge Rectifier** 

**1000 Volts** 

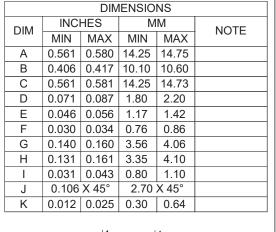
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBP410GS	KBP410GS	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	4.0A	T <sub>c</sub> = 110°C
Peak Forward Surge Current	I <sub>FSM</sub>	110A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V <sub>F</sub>	1.0V	I <sub>FM</sub> = 2A Per Element; T <sub>J</sub> = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5µA 100uA	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C
Dielecric Strength	V <sub>ISO</sub>	2KV	Terminals to Case, AC 1 Minute
Rating for Fusing	l²t	50 A <sup>2</sup> s	t<8.3ms
Typical Junction Capacitance	CJ	35 pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a

2. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.









# **Curve Characteristics**

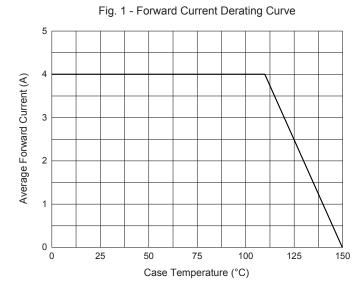
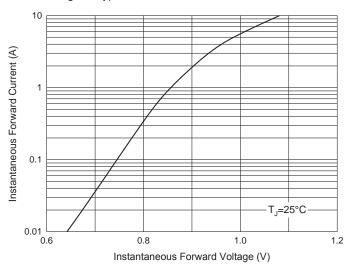
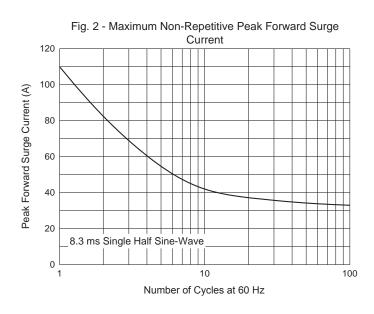
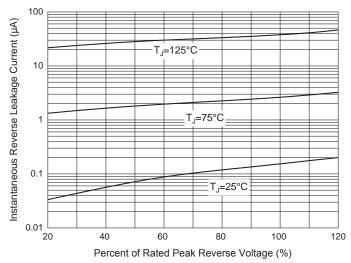


Fig. 3 - Typical Instantaneous Forward Characteristics











# **Ordering Information**

Device	Packing
Part Number-BP	Bulk:35pcs/Tube,2100pcs/Box,4200pcs/Carton

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