

# **4.0A GLASS PASSIVATED BRIDGE RECTIFIER**

### **FEATURES**

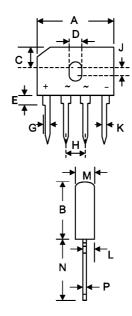
- \* Glass Passivated Die Construction
- \* Low Forward Voltage Drop
- \* High Current Capability
- \* High Reliability
- \* High Surge Current Capability

# **MECHANICAL DATA**

\* Case: Molded Plastic

\* Marking: Type Number

\* Epoxy: UL94V-O rate flame retardant
\* Terminals: Plated Leads Solderable
Per MIL-STD-202 Method 208
\* Polarity: As Marking on Body
\* Mounting Position: Any
\* Weight: 4.0 gram (approx.)



GBU								
Dim	Min Max							
Α	21.80	22.30						
В	18.30	18.80						
С	7.40	7.90						
D	3.50	4.10						
Е	1.52	2.03						
G	2.16	2.54						
Н	4.83	5.33						
J	1.65	2.16						
K	1.02	1.27						
L	0.76	1.02						
М	3.30	3.56						
Ν	17.50	18.00						
Р	0.46	0.56						
Unit :mm								

# MAXIMUM RATINGS AND ELECTRICAL CHARATERISTICS

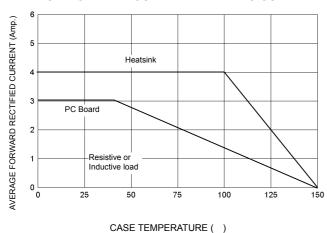
- \* Rating at 25 ambient temperature unless otherwise specified
- \* Single phase, half wave. 60Hz, resistive or inductive load.
- \* For capacitive load derate current bh 20 %

Characteristic	Symbol	GBU4A	GBU4B	GBU4D	GBU4G	GBU4J	GBU4K	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		50	100	200	400	600	800	٧
RMS Reverse Voltage		35	70	140	280	420	560	٧
erage Rectifier Forward Current @ $T_C$ =125					Α			
Non-Repetitive Peak Surge Current 8.3 ms Single half sine-wave superimposed on rated load		150						А
Forward Voltage (per element) (I <sub>F</sub> =2.0 Amp)	$V_{FM}$	1.0						٧
Peak Reverse Current (Rated DC Voltage, T <sub>C</sub> = 25 ) (Rated DC Voltage, T <sub>C</sub> = 100 )		5.0 500						uA
I <sup>2</sup> t Rating for Fusing( t<8.35MS)	l <sup>2</sup> t	90						$A^2s$
Typical Thermal Resistance (per leg)(note 1)		20						k/W
Typical Thermal Resistance (per leg)(note 2)		4.0						k/W
Operating and Storage Temperature Range		-65 to +150						

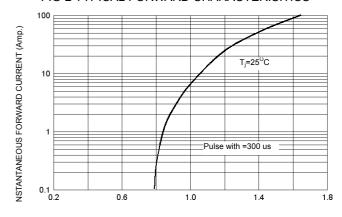
Note: 1.Thermal resistance junction to ambient, mounted on PCB at 9.5mm lead length with 12 mm² copper pads.

2.Thermal resistance junction to case, mounted on 5.0×4.0×0.8 cm thick AL plate.



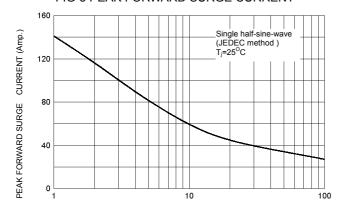


### FIG-2 TYPICAL FORWARD CHARACTERISITICS



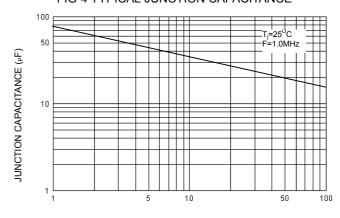
FORWARD VOLTAGE (Volts)

## FIG-3 PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz

## FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)



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