

GPJ15A~GPJ15M

SINGLE IN-LINE BRIDGE RECTIFIER

VOLTAGE 50 to 1000 Volts **CURRENT** 15 Ampere



Recognized File #E157705

FEATURES

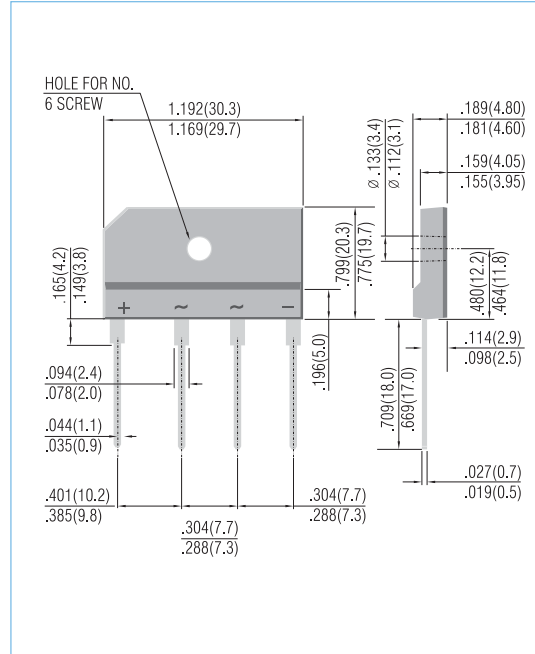
- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Pb free product : 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

- Case: Molded plastic body
- Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026
- Polarity: As Marked on Body
- Weight: 4.0 grams (approx.)
- Mounting Position: Any

KBJ

Unit: inch (mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Single Phase, half wave, 60Hz, resistive or inductive load.
For Capacitive load derate current by 20%.

PARAMETER	SYMBOL	GPJ15A	GPJ15B	GPJ15D	GPJ15G	GPJ15J	GPJ15K	GPJ15M	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current at $T_c=100^{\circ}C$	$I_{F(AV)}$	15							A
Peak Forward Surge Current single sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	250							A
Maximum Instantaneous Forward Voltage Drop per element at 7.5A	V_F	1.1							V
Maximum Reverse Leakage Current at Rated @ $T_A=25^{\circ}C$ Dc Blocking Voltage @ $T_c=100^{\circ}C$	I_R	10 500							μA
Typical Thermal Resistance per leg (Note 1)	$R_{\theta JC}$	2.7							$^{\circ}C/W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to + 150							$^{\circ}C$

NOTES:

1. Device mounted on 330 x 330 x 1.6mm thick AL plate heatsink.

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RATING AND CHARACTERISTIC CURVES

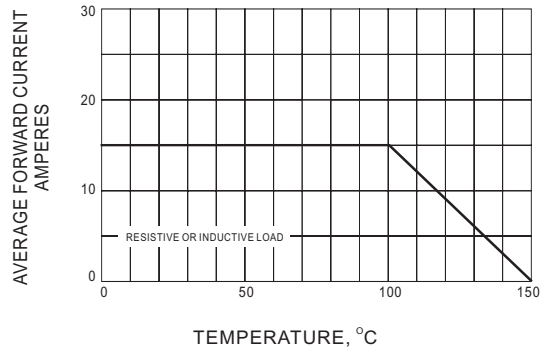


Fig. 1 - FORWARD CURRENT DERATING CURVE

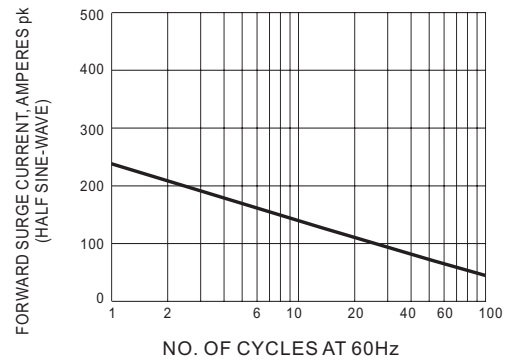


Fig. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

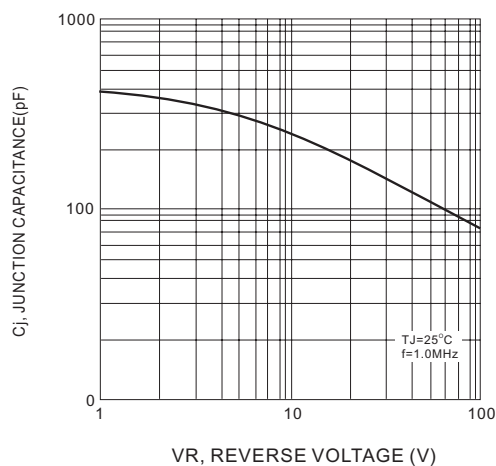


Fig. 3 - TYPICAL JUNCTION CAPACITANCE

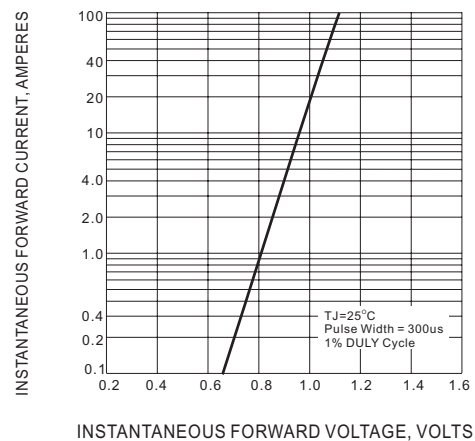


Fig. 4 - TYPICAL FORWARD CHARACTERISTICS PER ELEMENT

LEGAL STATEMENT

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