G2SB480-47LS

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 800V Current:4.0A

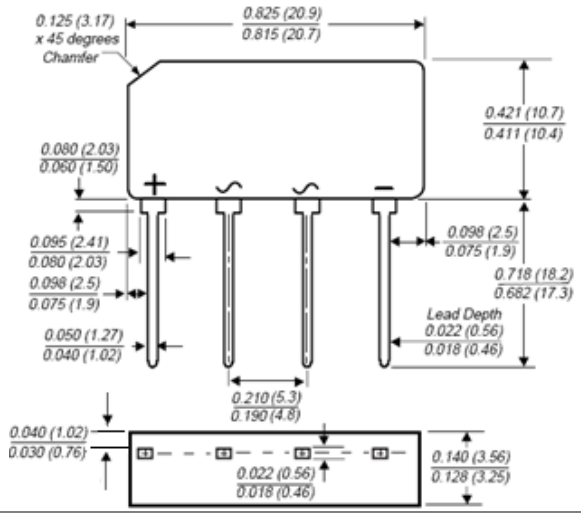
Features

Plastic package has Underwriters Laboratory Flammability Classification 94V-0
Glass passivated chip junction
High case dielectric strength
High surge current capability
Ideal for printed circuit boards
This series is UL listed under Recognized Component Index, file number E330278

Mechanical Data

Terminals: Plated leads solderable per J-STD-002
Case: Molded plastic body over passivated junctions
Mounting Position: Any

GBL



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	Symbol	G2SB480-47LS	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	800	V
Maximum RMS Voltage	Vrms	560	V
Maximum DC blocking Voltage	Vdc	800	V
Maximum average forward rectified output current — with HSK without HSK with FAN, without HSK	If(av)	4.0 2.4 2.6	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	150	A
Maximum Instantaneous Forward Voltage at forward current 2.0A	Vf	1.0	V
Rating for fusing (t<8.3ms)	I^2t	93	A^2Sec
Maximum DC Reverse Current — Ta =25°C at rated DC blocking voltage — Ta =125°C	Ir	5.0 500	μA
Typical thermal resistance with heatsink	Rth(jc) Rth(jl) Rth(ja)	4.0 3.8 9.6	℃/W
Typical thermal resistance without heatsink	Rth(jc)	5.0	℃/W
Storage and Operation Junction Temperature	Tj, Tstg	-55 to +150	℃

Note:
1. Unit mounted on 5.0 x 5.0 x 0.16 cm thick Aluminum plate

RATINGS AND CHARACTERISTIC CURVES G2SB480-47LS

Fig. 1 -- Derating Curves Output Rectified Current

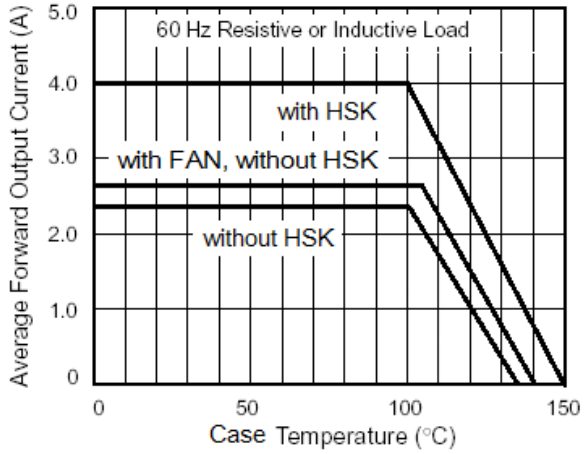


Fig. 2 -- Maximum Non-Repetitive Peak Forward Surge Current Per Leg

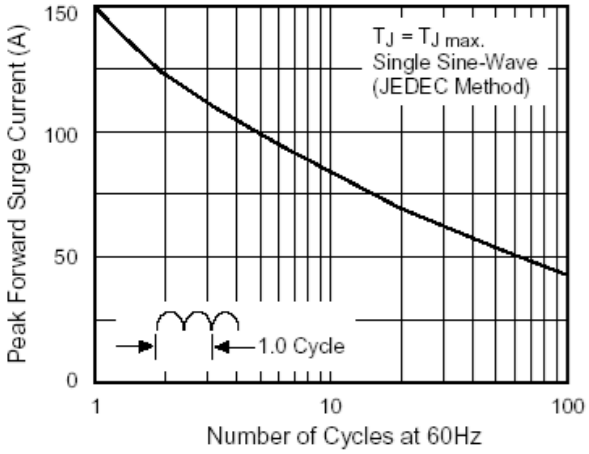


Fig. 3 -- Typical Forward Voltage Characteristics Per Leg

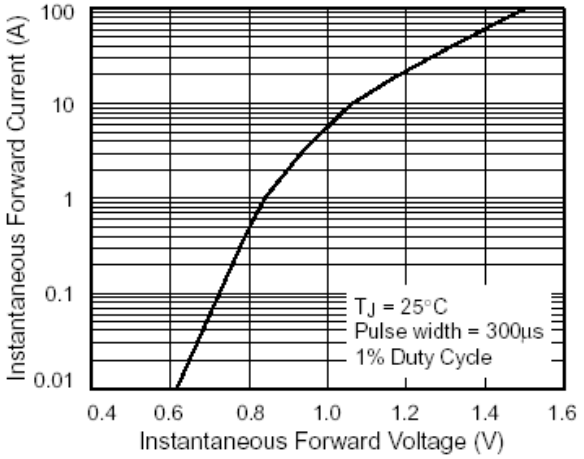


Fig. 4 – Typical Reverse Leakage Characteristics Per Leg

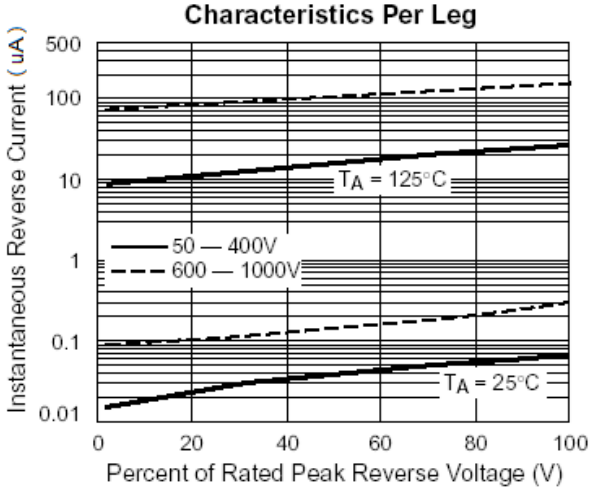


Fig. 5 -- Typical Junction Capacitance Per Leg

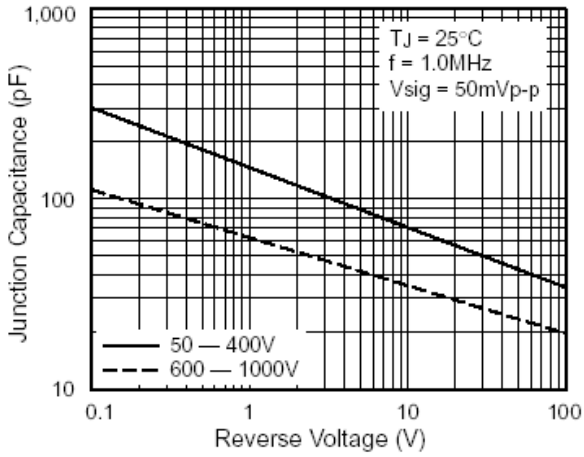


Fig. 6 -- Typical Transient Thermal Impedance Per Leg