

Single-Phase Single In-Line Bridge Rectifiers

Reverse Voltage 200 to 800V

Forward Current 15A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL listed under Recognized Component Index, file number E54214.
- High case dielectric strength of 2500 V_{RMS}
- Ideal for printed circuit boards
- Glass passivated chip junction
- High surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds, 0.375 (9.5mm) lead length, 5lbs. (2.3kg) tension

Mechanical Data

Case: GSIB-5S Molded plastic body

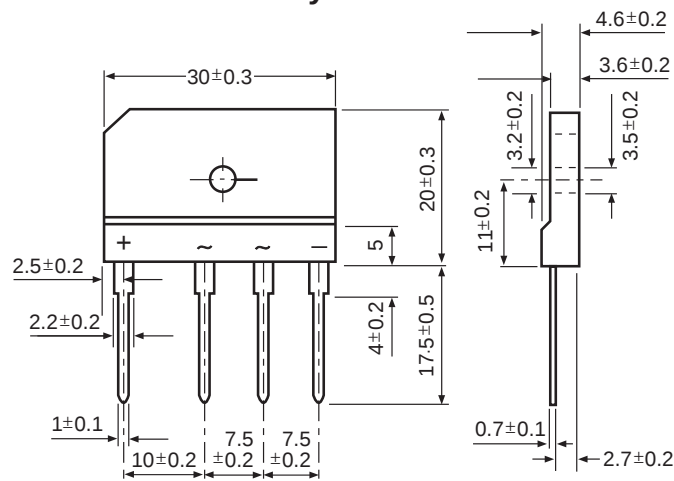
Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Mounting Position: Any (Note 3)

Mounting Torque: 8 in-lbs max.

Weight: 0.26oz., 7.0g

Case Style GSIB-5S



Dimensions in millimeters

Maximum Ratings & Thermal Characteristics (T_A = 25°C unless otherwise noted)

Parameter	Symbol	GSIB 15A20	GSIB 15A40	GSIB 15A60	GSIB 15A80	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	800	V
Maximum RMS voltage	V _{RMS}	140	280	420	560	V
Maximum DC blocking voltage	V _{DC}	200	400	600	800	V
Maximum average forward rectified output current at T _C = 107°C ⁽¹⁾ T _A = 25°C ⁽²⁾	I _{F(AV)}	15 3.5				A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200				A
Rating for fusing (t < 8.3ms)	I ² t	166				A ² sec
Maximum thermal resistance per leg	R _{θJA} R _{θJC}	22 ⁽²⁾ 1.5 ⁽¹⁾				°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150				°C

Electrical Characteristics (T_A = 25°C unless otherwise noted)

Parameter	Symbol	GSIB 15A20	GSIB 15A40	GSIB 15A60	GSIB 15A80	Unit
Maximum instantaneous forward voltage drop per leg at 7.5A	V _F	1.00				V
Maximum DC reverse current at T _A = 25°C rated DC blocking voltage per leg T _A = 125°C	I _R	10 250				μA

Notes:

(1) Unit case mounted on Al plate heatsink.

(2) Units mounted on P.C.B. without heatsink

(3) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw

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Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

