

Single Phase Silicon Bridge Rectifier

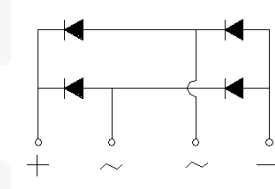
 $V_{RRM} = 50\text{ V} - 400\text{ V}$
 $I_O = 6\text{ A}$

Features

- Low forward voltage drop
- Low leakage current
- Types from 50 V up to 400 V V_{RRM}
- Not ESD Sensitive

Mechanical Data

Case: Molded plastic body
 Mounting: Hole thru for #6 screw
 Mounting position: Any
 Lead: As marked

BR-6 Package


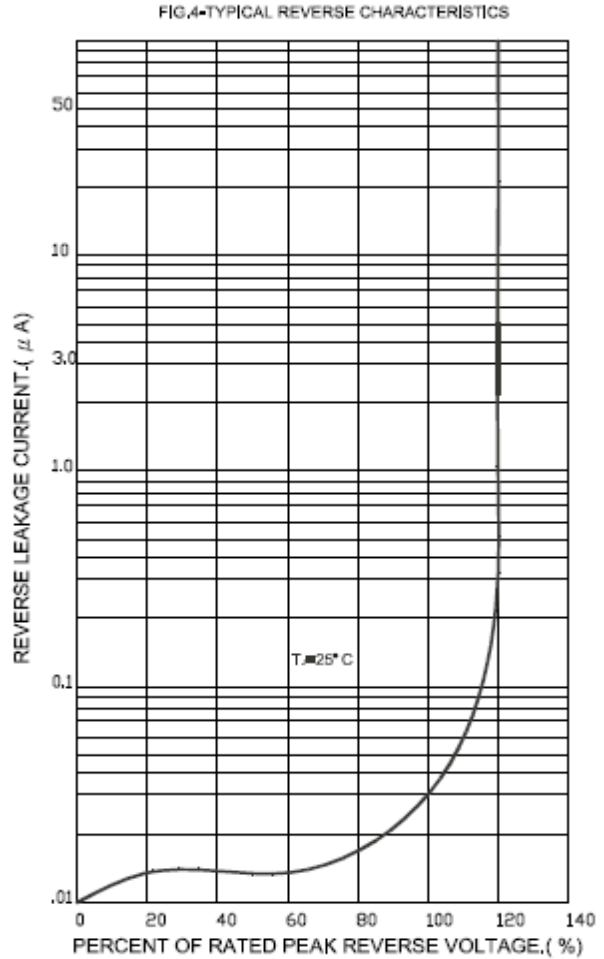
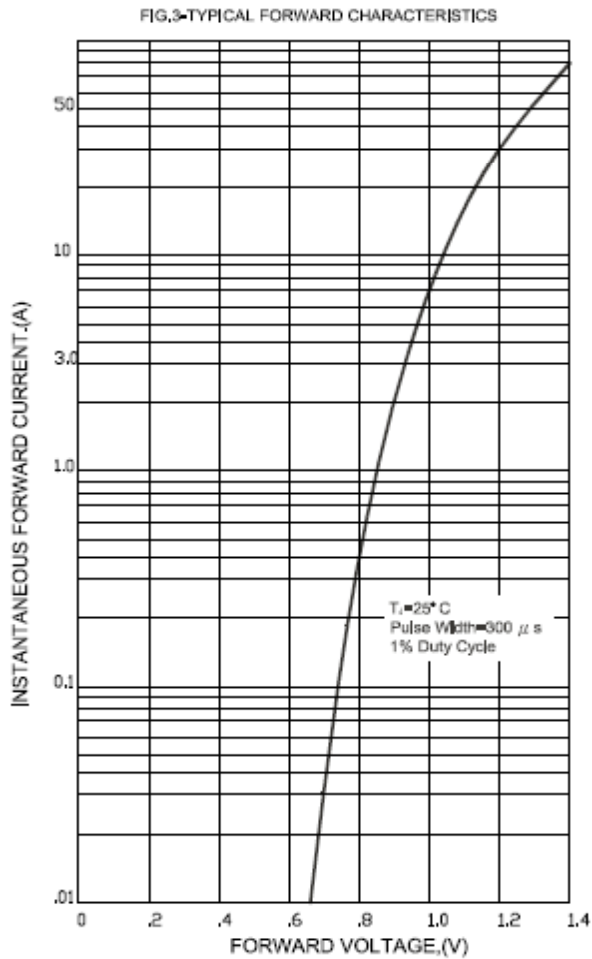
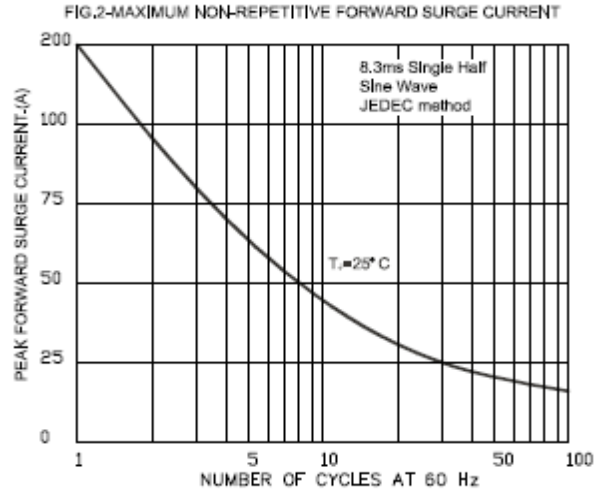
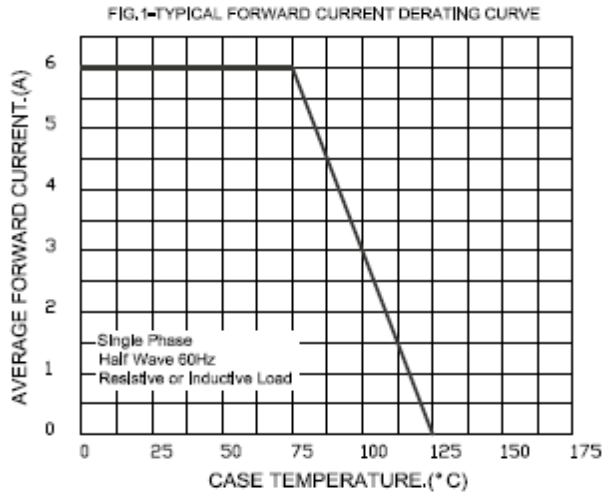
Maximum ratings at $T_c = 25\text{ }^\circ\text{C}$, unless otherwise specified

| Parameter | Symbol | Conditions | BR605 | BR61 | BR62 | BR64 | Unit |
|---------------------------------|-----------|------------|------------|------------|------------|------------|------------------|
| Repetitive peak reverse voltage | V_{RRM} | | 50 | 100 | 200 | 400 | V |
| RMS reverse voltage | V_{RMS} | | 35 | 70 | 140 | 280 | V |
| DC blocking voltage | V_{DC} | | 50 | 100 | 200 | 400 | V |
| Operating temperature | T_j | | -65 to 125 | -65 to 125 | -65 to 125 | -65 to 125 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | | -65 to 150 | -65 to 150 | -65 to 150 | -65 to 150 | $^\circ\text{C}$ |

Electrical characteristics at $T_c = 25\text{ }^\circ\text{C}$, unless otherwise specified

Single phase, half sine wave, 60 Hz, resistive or inductive load
 For capacitive load derate current by 20%

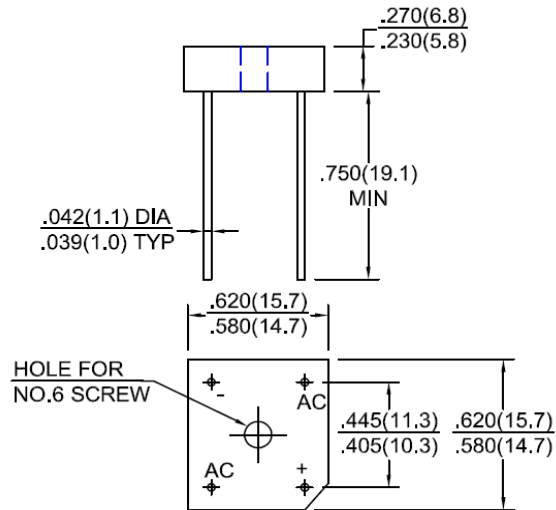
| Parameter | Symbol | Conditions | BR605 | BR61 | BR62 | BR64 | Unit |
|---|-----------|---|-----------|-----------|-----------|-----------|---------------|
| Maximum average forward rectified current | I_O | $T_c = 75\text{ }^\circ\text{C}$ | 6.0 | 6.0 | 6.0 | 6.0 | A |
| Peak forward surge current | I_{FSM} | $t_p = 8.3\text{ ms}$, half sine | 200 | 200 | 200 | 200 | A |
| Maximum instantaneous forward voltage drop per bridge element | V_F | $I_F = 3.0\text{ A}$ | 1.0 | 1.0 | 1.0 | 1.0 | V |
| Maximum DC reverse current at rated DC blocking voltage | I_R | $T_a = 25\text{ }^\circ\text{C}$ $T_a = 100\text{ }^\circ\text{C}$ | 10 200 | 10 200 | 10 200 | 10 200 | μA |



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.

BR-6



Dimensions in inches and (millimeters)

