

Silicon Bridge Rectifier

V_{RRM} = 50 V - 1000 V
I_F = 3 A

Features

- Types up to 1000 V V_{RRM}
- Ideal for printed circuit board
- Low forward voltage drop
- High temperature soldering guaranteed: 250°C/ 10 seconds, 0.375" lead length
- Low leakage current



Mechanical Data

Case: Molded plastic body

Polarity: Marked on body

Mounting position: Any

Mounting: Hole for number 6 screw

Maximum ratings, at T_j = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	BR305	BR31	BR32	BR34	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
Continuous forward current	I _F	T _C ≤ 50 °C	3	3	3	3	A
Surge non-repetitive forward current, Half Sine Wave	I _{F,SM}	T _C = 25 °C, t _p = 8.3 ms	50	50	50	50	A
Operating temperature	T _j		-65 to 125	-65 to 125	-65 to 125	-65 to 125	°C
Storage temperature	T _{stg}		-65 to 150	-65 to 150	-65 to 150	-65 to 150	°C

Electrical characteristics, at T_j = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	BR305	BR31	BR32	BR34	Unit
Diode forward voltage	V _F	I _F = 1.5 A, T _j = 25 °C	1	1	1	1	V
Reverse current	I _R	V _R = 50 V, T _j = 25 °C V _R = 50 V, T _j = 100 °C	10 100	10 100	10 100	10 100	µA

