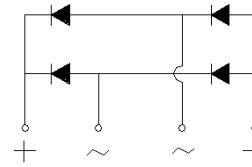


Single Phase Silicon Bridge Rectifier

V_{RRM} = 50 V - 400 V
I_O = 3 A

Features

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



BR-3 Package



Mechanical Data

Case: Molded plastic body

Mounting: Hole thru for #6 screw

Mounting position: Any

Lead: As marked

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

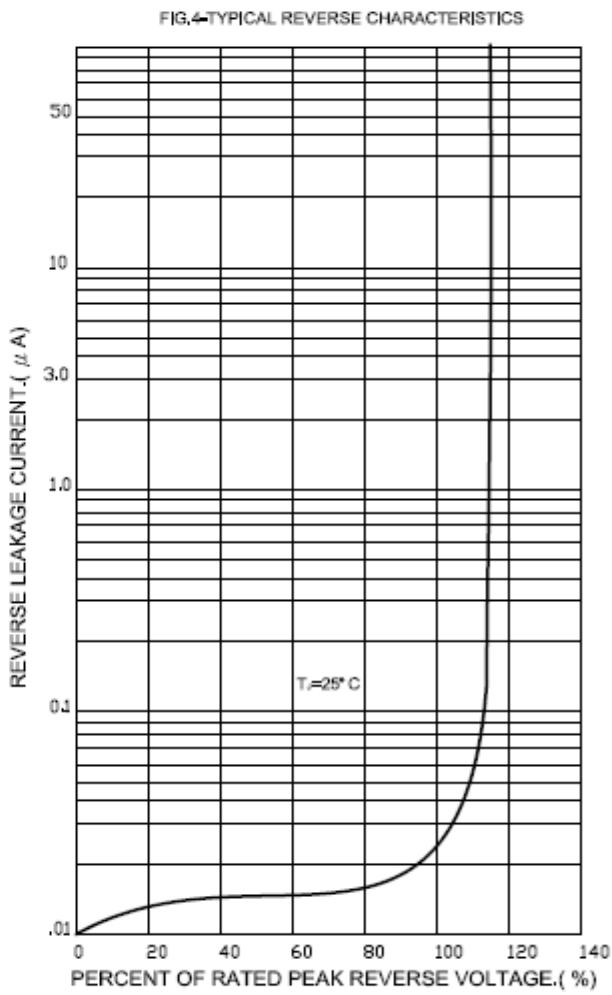
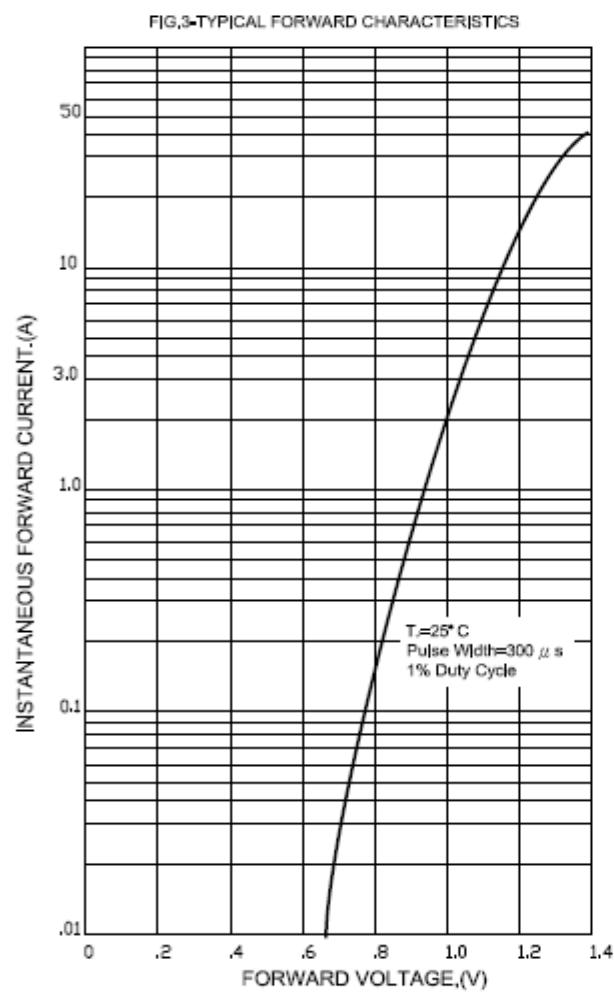
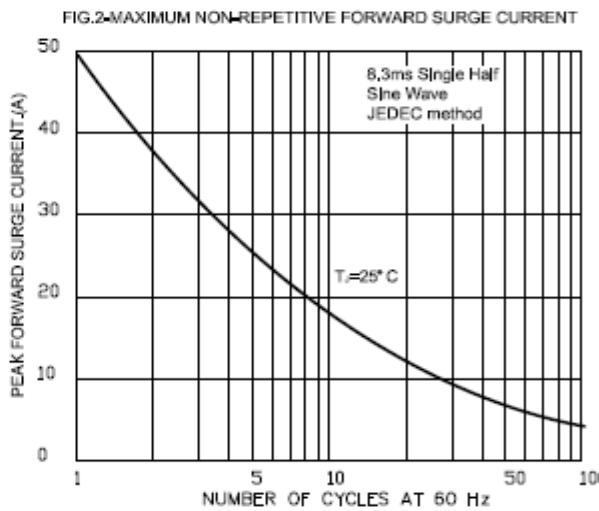
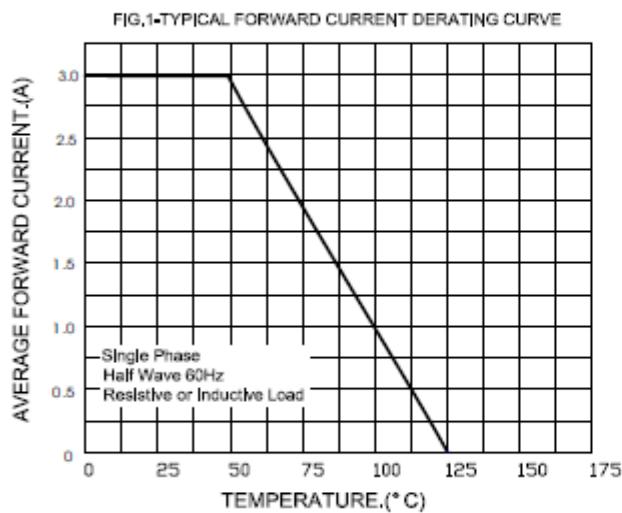
Parameter	Symbol	Conditions	BR305	BR31	BR32	BR34	Unit
Repetitive peak reverse voltage	V _{RRM}		50	100	200	400	V
RMS reverse voltage	V _{RMS}		35	70	140	280	V
DC blocking voltage	V _{DC}		50	100	200	400	V
Operating temperature	T _j		-65 to 125	-65 to 125	-65 to 125	-65 to 125	°C
Storage temperature	T _{stg}		-65 to 150	-65 to 150	-65 to 150	-65 to 150	°C

Electrical characteristics at T_c = 25 °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	BR305	BR31	BR32	BR34	Unit
Maximum average forward rectified current	I _O	T _c = 50 °C	3.0	3.0	3.0	3.0	A
Peak forward surge current	I _{FSM}	t _p = 8.3 ms, half sine	50	50	50	50	A
Maximum instantaneous forward voltage drop per bridge element	V _F	I _F = 1.5 A	1.0	1.0	1.0	1.0	V
Maximum DC reverse current at rated DC blocking voltage	I _R	T _c = 25 °C T _c = 100 °C	10 100	10 100	10 100	10 100	μA



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.

