

RB548W

Rectifying small power

- 1) Extra small mold type. (EMD3)
- 2) High reliability.

Silicon epitaxial planer

The drawing shows three views of the EMD3 package with the following dimensions:

- Top View:**
 - Overall width: 1.6 ± 0.2
 - Pin pitch: 1.0 ± 0.1
 - Pin width: 0.5 ± 0.1
 - Pin spacing from edge: 0.2 ± 0.1 and -0.05
- Front View:**
 - Package height: 1.6 ± 0.2
 - Lead height: 0.8 ± 0.1
 - Lead thickness: 0.3 ± 0.1
 - Lead angle: 0.15 ± 0.05
 - Lead width at base: 0.3 ± 0.1 and -0.05
- Side View:**
 - Lead thickness: 0.7 ± 0.1
 - Lead width: 0.55 ± 0.1
 - Lead angle: $0-0.1$
 - Minimum lead length: 0.1 Min.

Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	V_R	30	V
Average rectified forward current ^{*1}	I_O	100	mA
Forward current surge peak ^{*2}	I_{FSM}	0.5	mA
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

*1 Rating of per diode
*2 60Hz, 1cyc. Rating of per diode

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	—	—	0.450	V	$I_F=10\text{mA}$
Reverse current	I_R	—	—	0.5	μA	$V_R=10\text{V}$

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●Electrical characteristic curves (Ta=25°C)

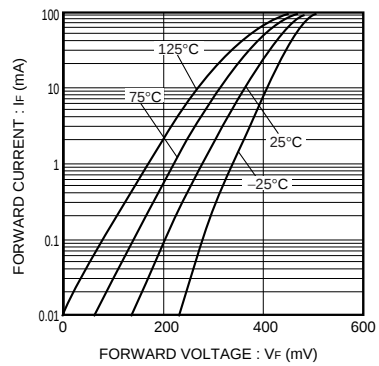


Fig. 1 Forward characteristics

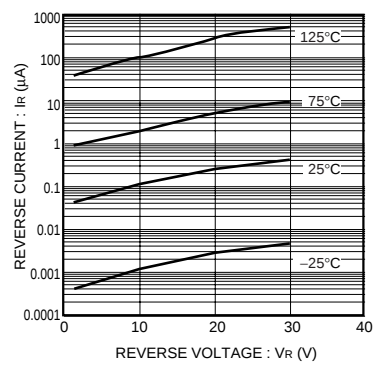


Fig. 2 Reverse characteristics

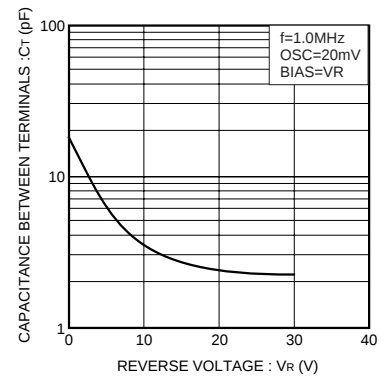


Fig. 3 Capacitance between terminals characteristics

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