

Schottky Barrier Diode

Lead free product

Halogen-free type

RB491DGH



Features

- Small surface mounting type.
- Ultra low V_F . ($V_F=0.40V$ Typ. at 1A)
- $I_F=1.0A$ guaranteed despite the size.
- We declare that the material of product compliance with RoHS requirements.
- We declare that the material of product is Halogen Free (Green Epoxy Compound).

APPLICATIONS

- Low-power rectification
- For switching power supply

● Absolute maximum ratings ($T_a=25^\circ C$)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	25	V
DC reverse voltage	V_R	20	V
DC forward current	I_F	1.0	A
Peak forward surge current *	I_{FSM}	3	A
Junction temperature	T_j	125	$^\circ C$
Storage temperature	T_{stg}	-40~+125	$^\circ C$

* 60Hz for 1 μs

● Electrical characteristics ($T_a=25^\circ C$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.45	V	$I_F=1.0A$
Reverse current	I_R	-	-	200	μA	$V_R=20V$

Note) ESD sensitive product handling required.

● Electrical characteristic curves (Ta=25°C)

Fig.1 Forward characteristics

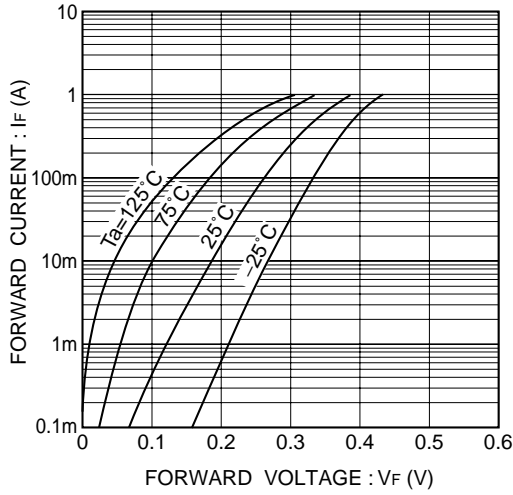


Fig.2 Reverse characteristics

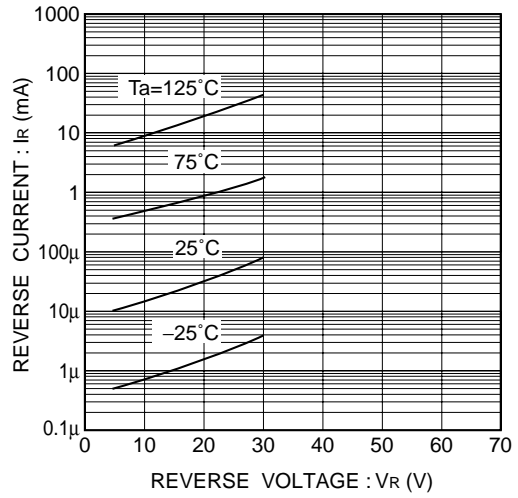


Fig.3 Capacitance between terminals characteristics

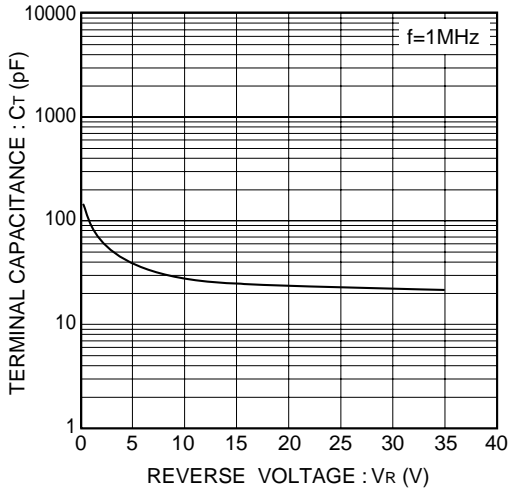


Fig.4 Forward power dissipation characteristics

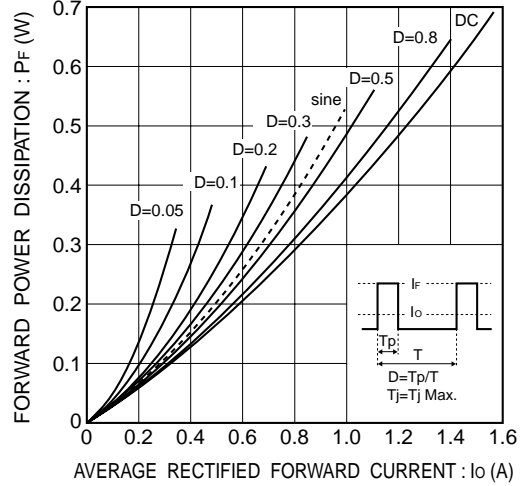
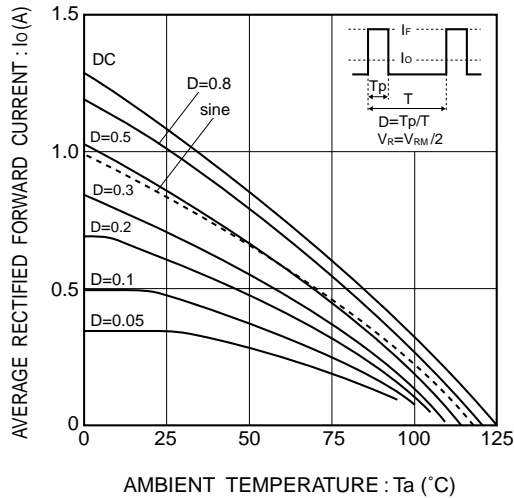


Fig.5 Derating curve (IO - Ta)



CASE DRAWINGS

SOT-23

Unit : mm

