High frequency rectifier schottky barrier diode

RB461F *New*

●Applications

Low power rectification

For switching power supply

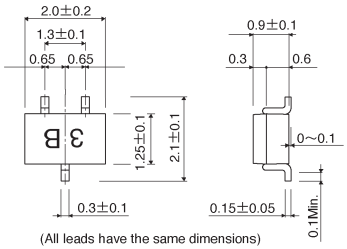
●Features

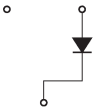
1) Small surface mounting type. (UMD3)
2) Extremely low forward drop voltage. (typical capability 0.45V at 0.7A)
3) I_F = 0.7A achieved despite the size.

●Construction

Silicon epitaxial planar

●External dimensions (Units: mm)





ROHM : UMD3
EIAJ : SC-70
JEDEC : SOT-323

●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	25	V
DC reverse voltage	V_R	20	V
DC forward current	I_F	0.7	A
Peak forward surge current*	I_{FSM}	3	A
Junction temperature	Tj	125	℃
Storage temperature	Tstg	−40～+125	℃

* 60 Hz for 1 ∿

●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	—	0.45	0.49	V	I_F=700mA
Reverse current	I_R	—	—	200	μA	V_R=20V

* ESD sensitive product handling required.

●Electrical characteristic curves (Ta = 25°C unless specified otherwise)

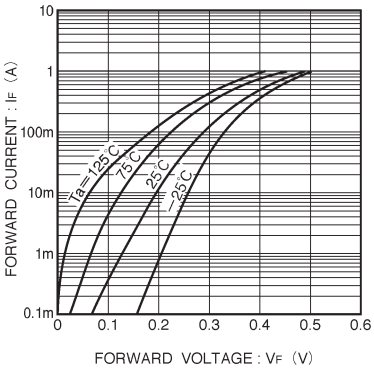


Fig. 1 Forward characteristics

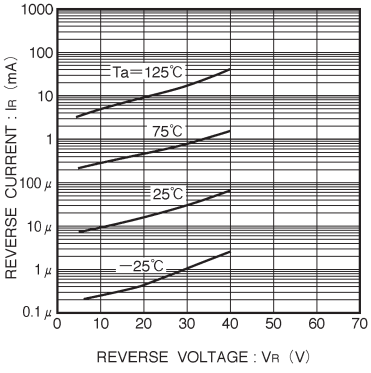


Fig. 2 Reverse characteristics

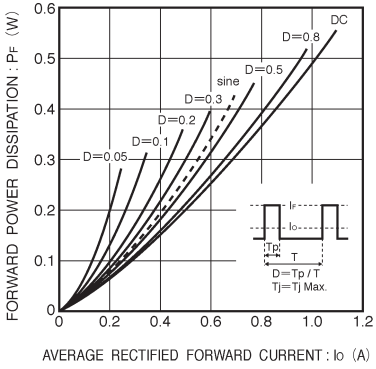


Fig. 3 Forward power dissipation characteristics

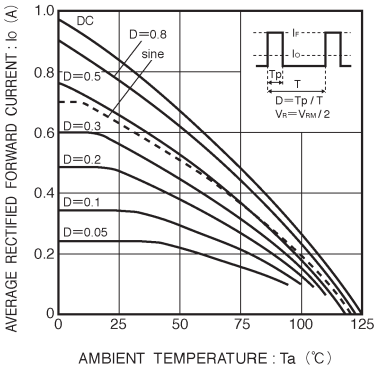


Fig. 4 Derating curve
(when mounted on a glass epoxy PCBs board)