Schottky barrier diode

RB731U

●Applications

High speed switching

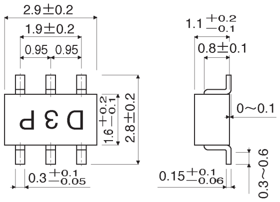
●Features

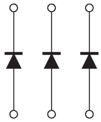
1) Small surface mounting type. (SMD6)
2) Low reverse current and low forward voltage.
3) Three diodes in parallel for easy installation.

●Construction

Silicon epitaxial planar

●External dimensions (Units: mm)





ROHM : SMD6
EIAJ : SC-74
JEDEC : SOT-457

●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	40	V
DC reverse voltage	V_R	40	V
Mean rectifying current	I_O	30	mA
Peak forward surge current*	I_{FSM}	200	mA
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	−	0.26	0.37	V	I_F=1mA
Reverse current	I_R	−	0.11	1	μA	V_R=10V
Capacitance between terminals	C_T	−	2.0	−	pF	V_R=1V, f=1MHz

* ESD sensitive product handling required.

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

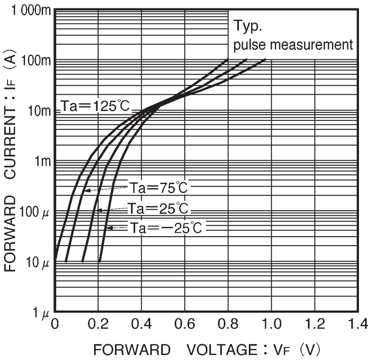


Fig. 1 Forward characteristics

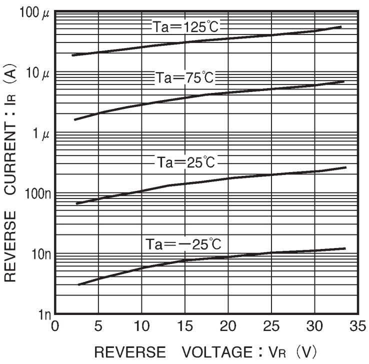


Fig. 2 Reverse characteristics

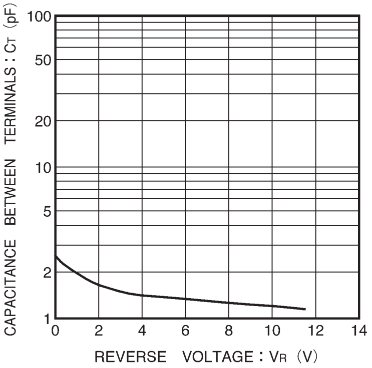


Fig. 3 Capacitance between terminals characteristics

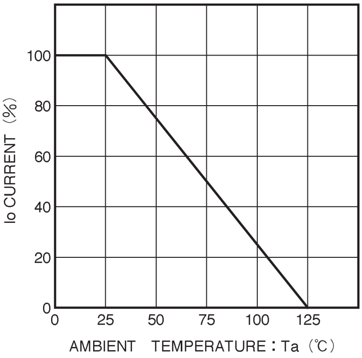


Fig. 4 Derating curve
(mounting on glass epoxy PCBs)