Schottky barrier diode

RB400D

●Applications

High frequency rectification
Switching power supply

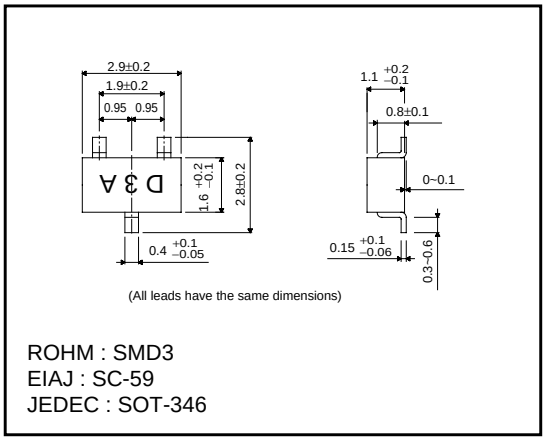
●Features

1) Small surface mounting type. (SMD3)
2) Low I_R. (I_R=1μA Typ.)
3) High reliability.

●Construction

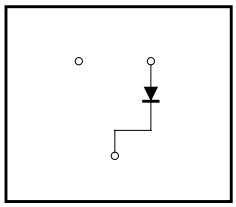
Silicon epitaxial planar

●External dimensions (Units : mm)



ROHM : SMD3
EIAJ : SC-59
JEDEC : SOT-346

●Circuit



●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	0.5	A
Peak forward surge current	I_{FSM}	3	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	−40~+125	°C

●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	–	–	0.55	V	I_F=0.5A
Reverse current	I_{R1}	–	–	50	μA	V_R=30V
	I_{R2}	–	–	30	μA	V_R=10V
Capacitance between terminals	C_t	–	125	–	pF	V_R=0V, f=1MHz
	C_t	–	20	–	pF	V_R=10V, f=1MHz

Note) ESD Sensitive product handling required.

●**Electrical characteristic curves** (Ta = 25°C)

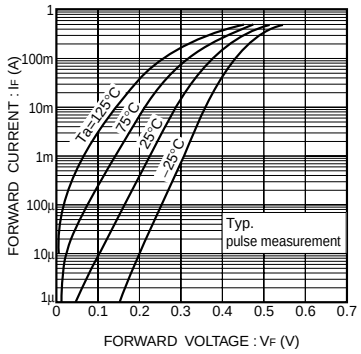


Fig.1 Forward characteristics

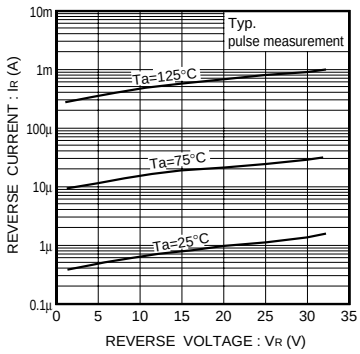


Fig.2 Reverse characteristics

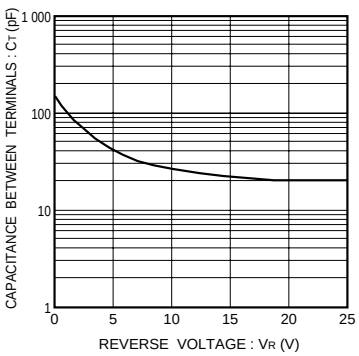


Fig.3 Capacitance between terminals characteristics

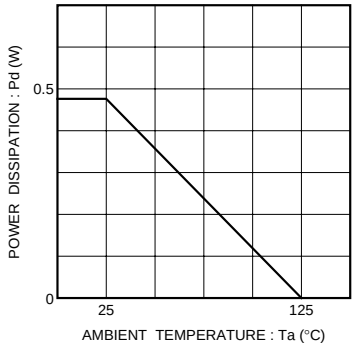


Fig.4 Derating curve