

# High frequency rectifier schottky barrier diode

## RB400D

### ●Applications

High frequency rectification  
Switching power supply

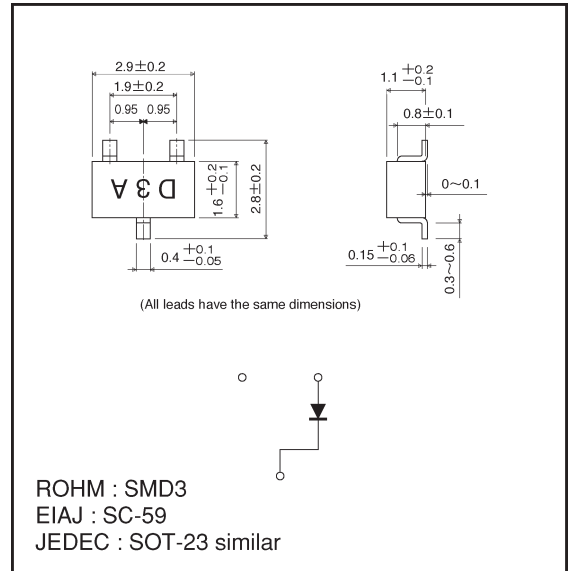
### ●Features

- 1) Small surface mounting type. (SMD3)
- 2) High reliability.
- 3) Low reverse current. (typical capability : 1 $\mu$ A)

### ●Construction

Silicon epitaxial

### ●External dimensions (Units: mm)



### ●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	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40~+125	°C

●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	—	0.49	0.55	V	$I_F=0.5A$
Reverse current	$I_{R1}$	—	1	50	$\mu A$	$V_R=25V$
	$I_{R2}$	—	—	30	$\mu A$	$V_R=10V$
Capacitance between terminals	$C_t$	—	125	—	pF	$V_R=0V$ $f=1MHz$
	$C_t$	—	20	—	pF	$V_R=10V$ $f=1MHz$

\* ESD Sensitive product handling required.

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

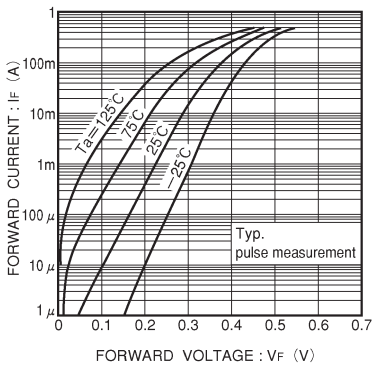


Fig. 1 Forward characteristics

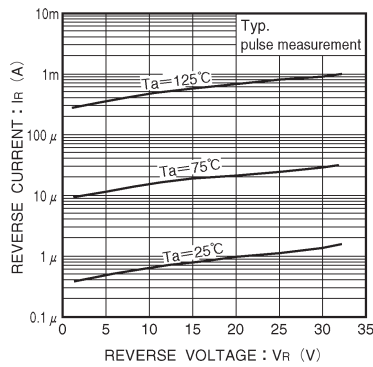


Fig. 2 Reverse characteristics

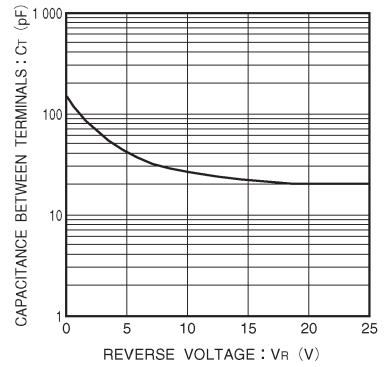


Fig. 3 Capacitance between terminals characteristics

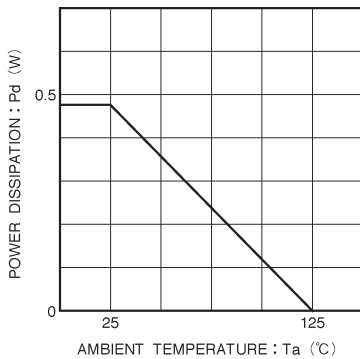


Fig. 4 Derating curve