

# Schottky barrier diode

## RB471E

### ●Applications

Low current rectification  
For switching power supplies

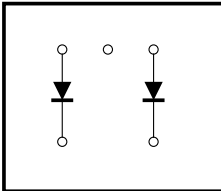
### ●Features

- 1) Small surface mounting dual element parallel type.  
(SMD5)
- 2) Low  $V_F$ . ( $V_F=0.45V$  Typ. at 100mA)
- 3) High reliability.

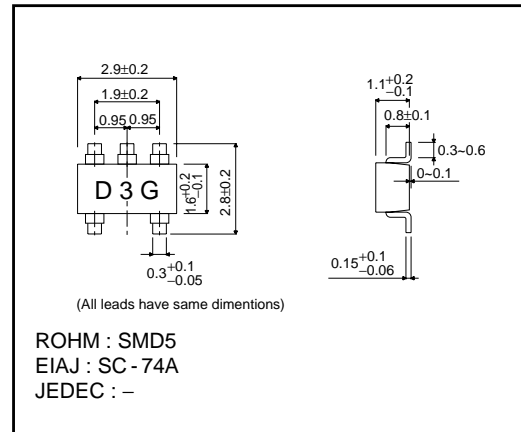
### ●Construction

Silicon epitaxial planar

### ●Circuit



### ●External dimensions (Units : mm)



### ●Absolute maximum ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Limits	Unit
Peak reverse voltage	$V_{RM}$	40	V
DC reverse voltage	$V_R$	40	V
Mean rectifying current	$I_O$	0.1	A
Peak forward surge current*	$I_{FSM}$	1	A
Junction temperature	$T_J$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40~+125	$^\circ\text{C}$

\* 60 Hz for 1  $\mu\text{s}$

Diodes

● Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F1</sub>	—	0.28	0.34	V	I <sub>F</sub> =10mA
	V <sub>F2</sub>	—	0.45	0.55	V	I <sub>F</sub> =100mA
Reverse current	I <sub>R</sub>	—	1	30	μA	V <sub>R</sub> =10V
Capacitance between terminals	C <sub>T</sub>	—	6.0	—	pF	V <sub>R</sub> =10V, f=1MHz

Note) ESD sensitive product handling required.

● Electrical characteristic curves (Ta = 25°C)

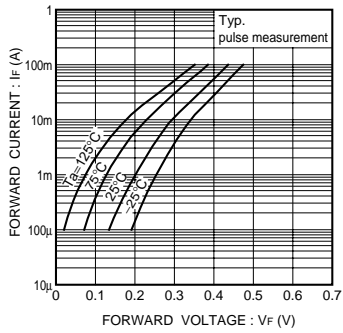


Fig. 1 Forward characteristics

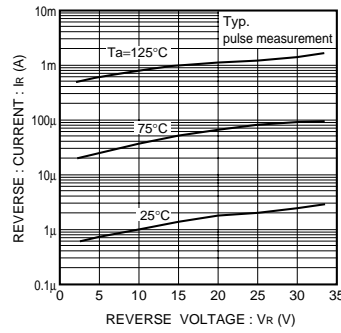


Fig. 2 Reverse characteristics

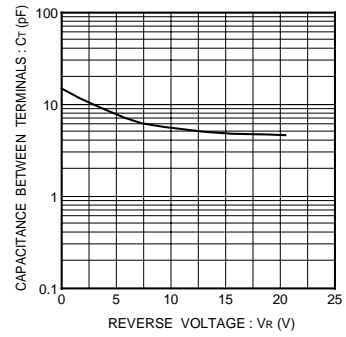


Fig. 3 Capacitance between terminals characteristics

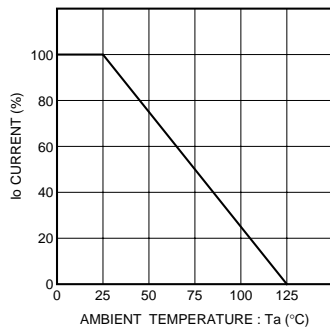


Fig 4. Derating curve (mounting on glass epoxy PCBs)

This datasheet has been download from:

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Datasheets for electronics components.