

Schottky barrier diode

RB471E

● Applications

Low current rectification

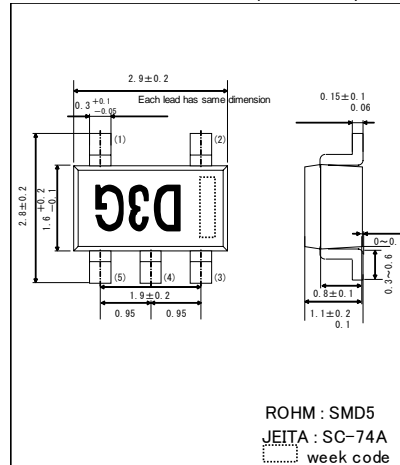
● Features

- 1) Small mold type. (SMD5)
- 2) High reliability.

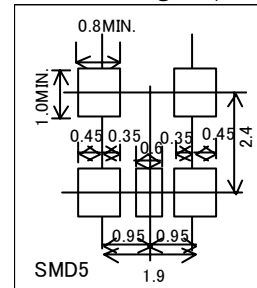
● Construction

Silicon epitaxial planar

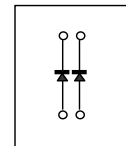
● External dimensions (Unit : mm)



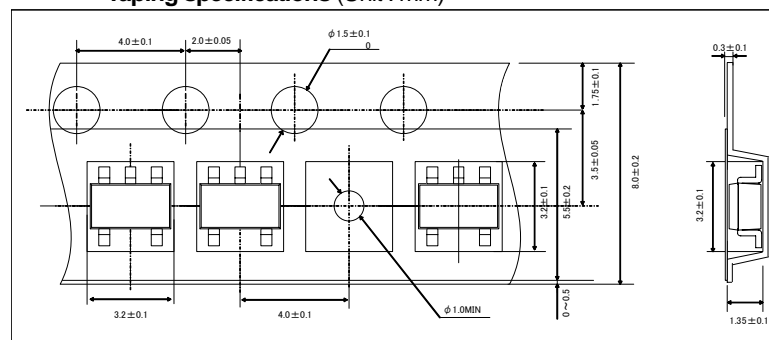
● Land size figure (Unit : mm)



● Structure



● Taping specifications (Unit : mm)



● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current (*1)	I_o	0.1	A
Forward current surge peak (60Hz·1cyc) (*1)	I_{FSM}	1	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

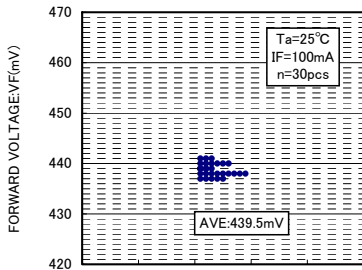
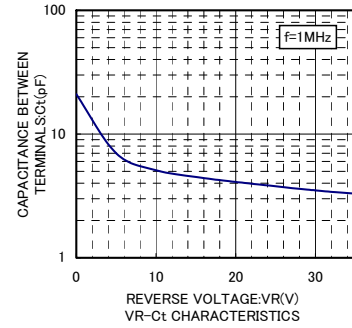
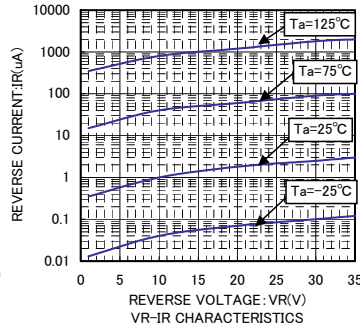
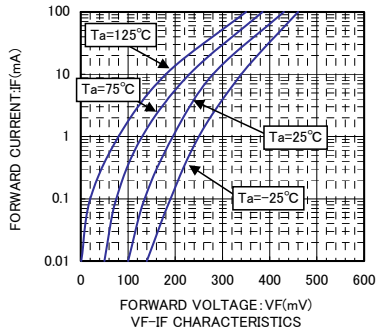
(*1) Rating of per diode

● Electrical characteristics (Ta=25°C)

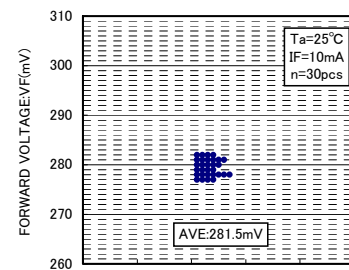
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.55	V	$I_F=100mA$
	V_{F2}	-	-	0.34	V	$I_F=10mA$
Reverse current	I_R	-	-	30	μA	$V_R=10V$
Capacitance between terminals	C_t	-	-	6	pF	$V_R=10V, f=1MHz$

Diodes

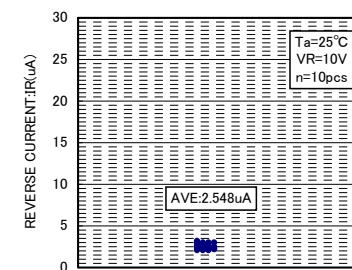
●Electrical characteristic curves (Ta=25°C)



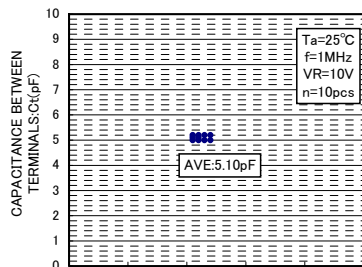
VF DISPERSION MAP



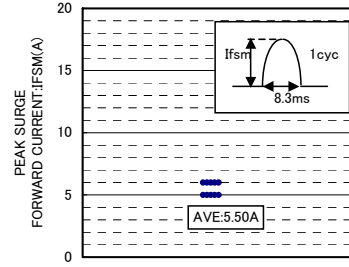
VF DISPERSION MAP



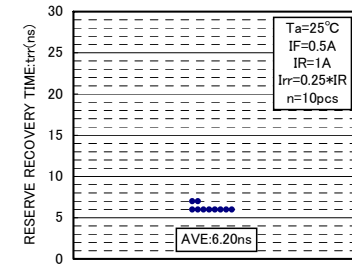
IR DISPERSION MAP



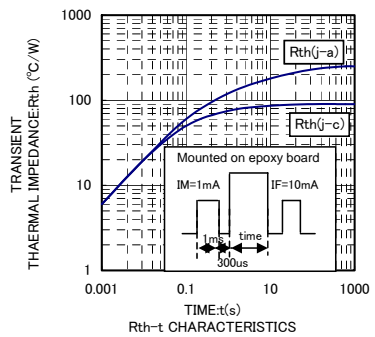
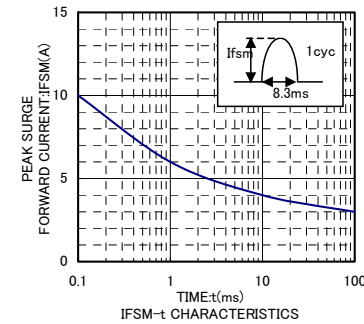
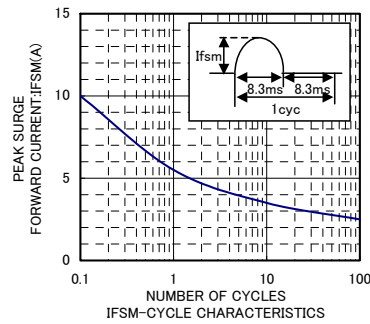
Ct DISPERSION MAP



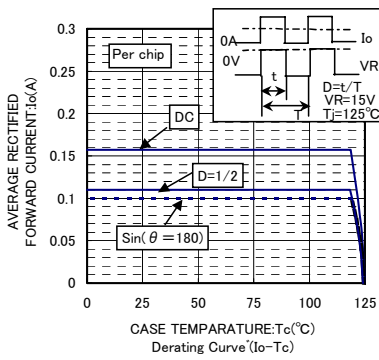
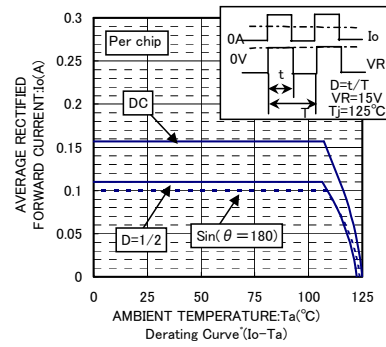
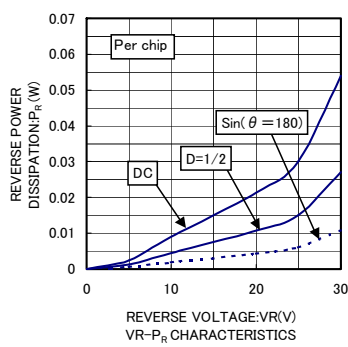
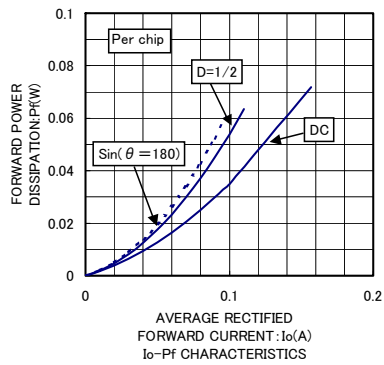
IFSM DISERSION MAP



trr DISPERSION MAP



Diodes



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