

Schottky barrier diode

RB421D

●Applications

Low power rectification

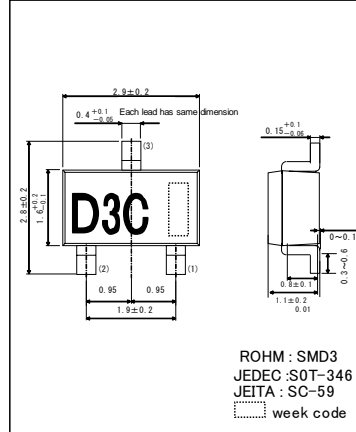
●Features

- 1) Small mold type. (SMD3)
- 2) Low I_r.
- 3) High reliability.

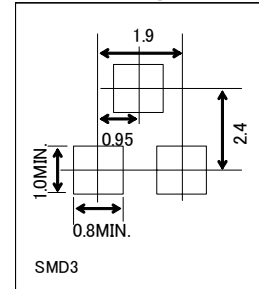
●Construction

Silicon epitaxial planar

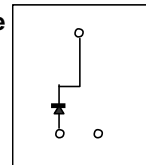
●External dimensions (Unit : mm)



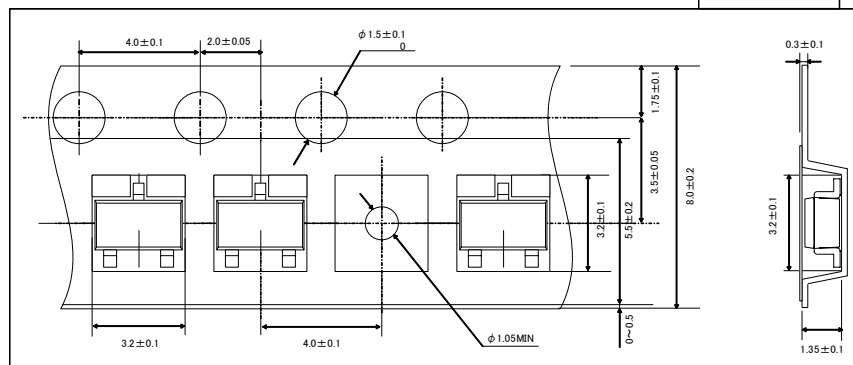
●Land size figure (Unit : mm)



●Structure



●Taping specification (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	100	mA
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

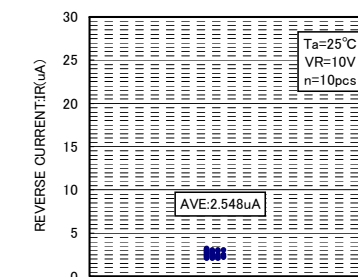
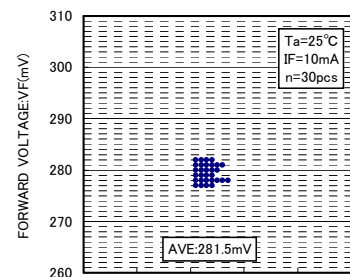
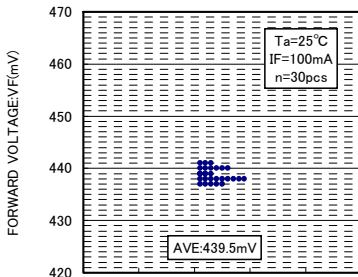
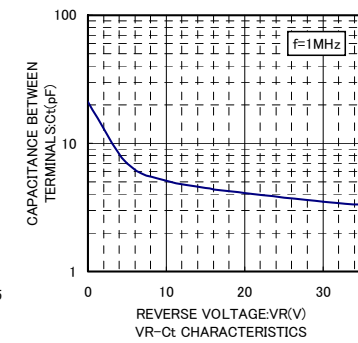
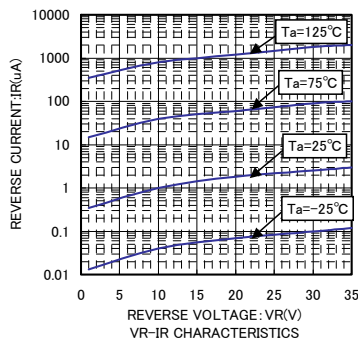
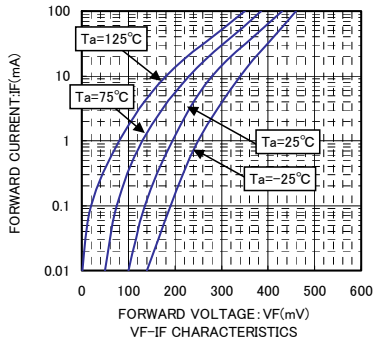
(*1) Rating of per diode

●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 _{R1}	-	-	30	μA	V _R =10V
Capacitance between terminals	C _{t1}	-	6	-	pF	V _R =10V, f=1MHz

Diodes

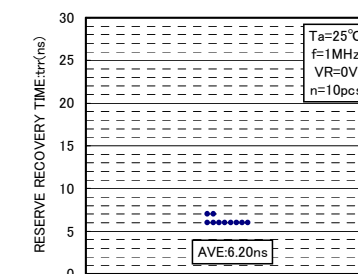
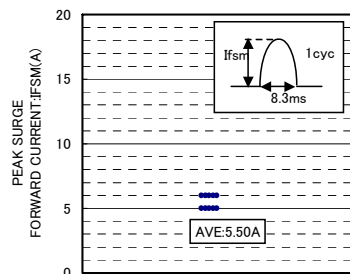
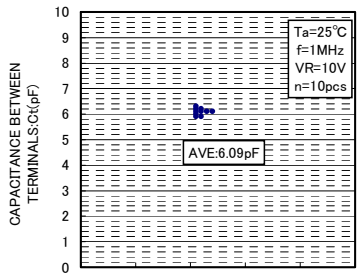
●Electrical characteristic curves (Ta = 25°C)



VF DISPERSION MAP

VF DISPERSION MAP

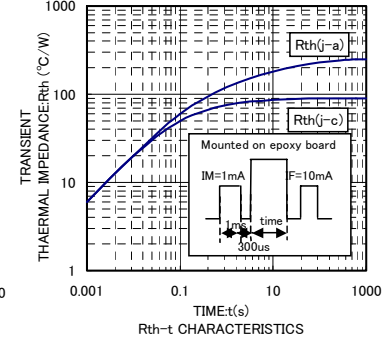
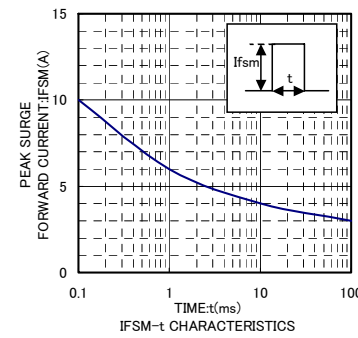
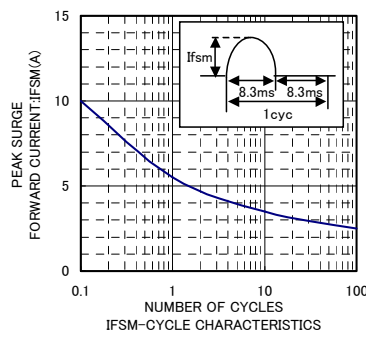
IR DISPERSION MAP



Ct DISPERSION MAP

IFSM DISPERSION MAP

trr DISPERSION MAP

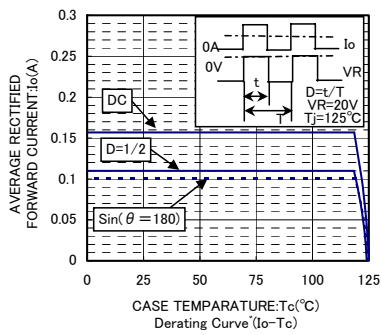
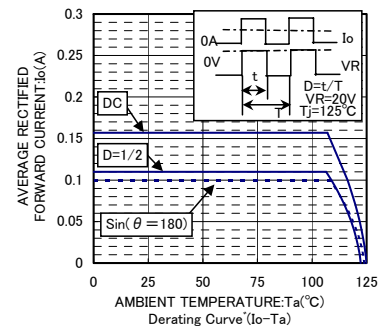
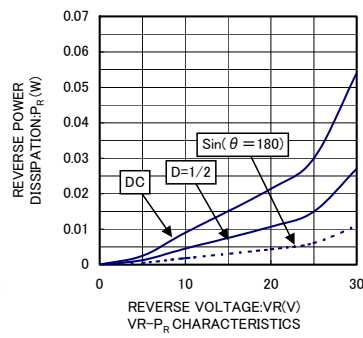
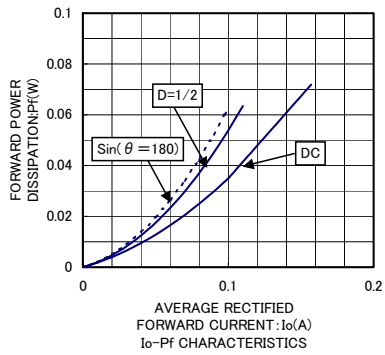


IFSM-CYCLE CHARACTERISTICS

IFSM-t CHARACTERISTICS

Rth-t CHARACTERISTICS

Diodes



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