

Schottky barrier diode

RB480Y-90

●Applications

Low current rectification

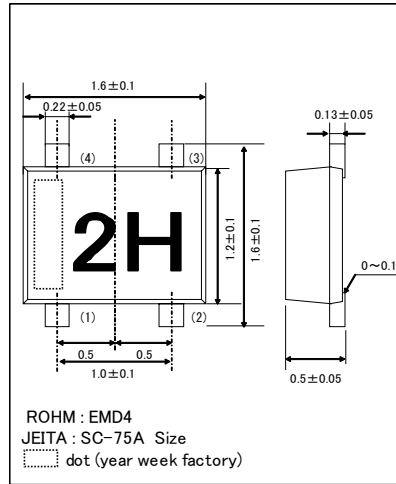
●Features

- 1) Ultra small mold type. (EMD4)
- 2) Low V_F
- 3) High reliability

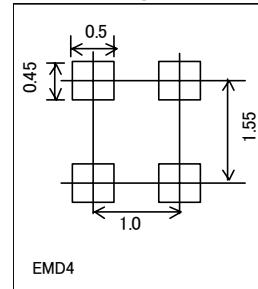
●Construction

Silicon epitaxial planar

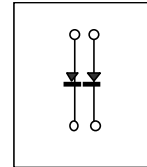
●External dimensions (Unit : mm)



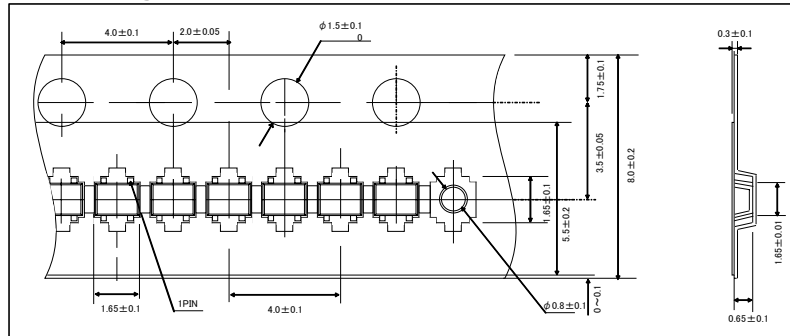
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	90	V
Reverse voltage (DC)	V_R	90	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

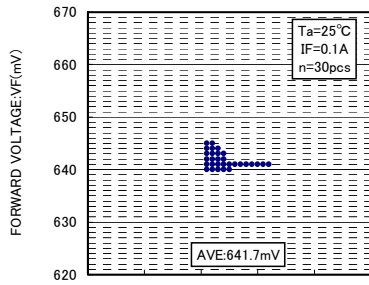
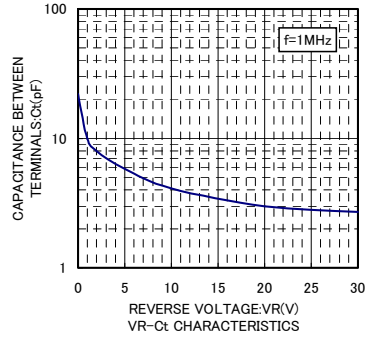
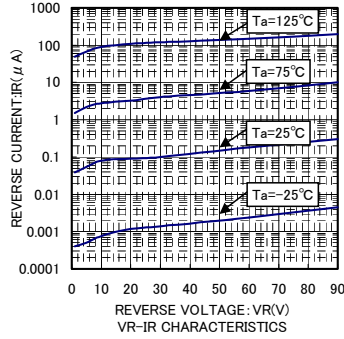
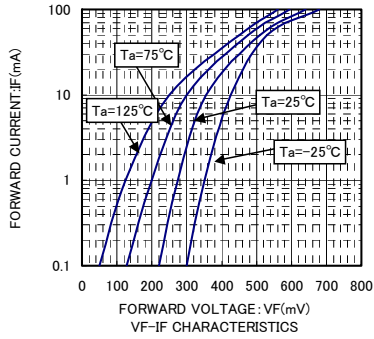
(*1) Rating of per diode

●Electrical characteristic (Ta=25°C)

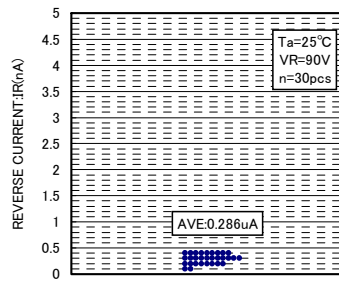
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.64	0.69	V	$I_F=100mA$
Reverse current	I_R	-	0.3	5	μA	$V_R=90V$

Diodes

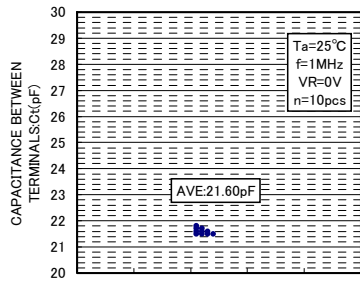
●Electrical characteristic curves



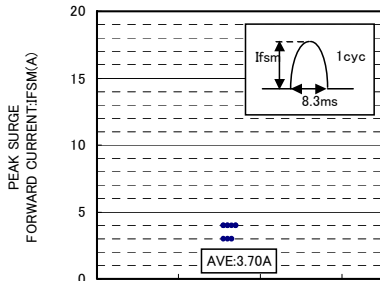
VF DISPERSION MAP



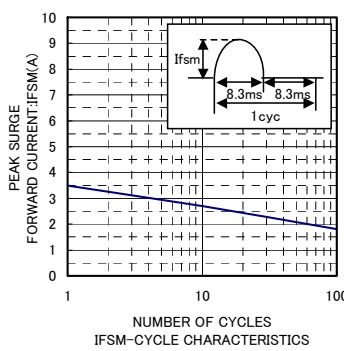
IR DISPERSION MAP



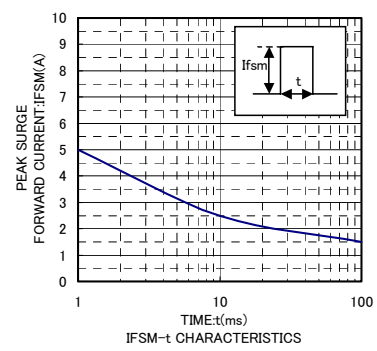
C_t DISPERSION MAP



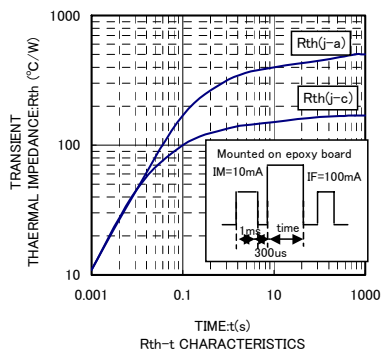
IFSM DISREION MAP



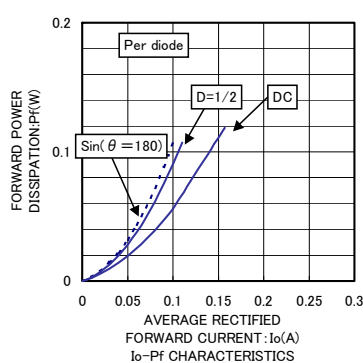
IFSM-CYCLE CHARACTERISTICS



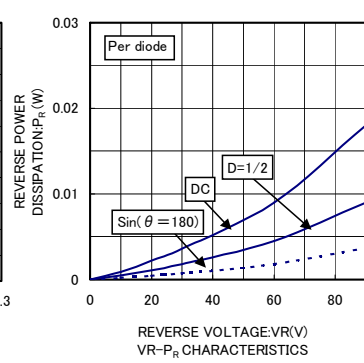
IFSM-t CHARACTERISTICS



R_{th-t} CHARACTERISTICS

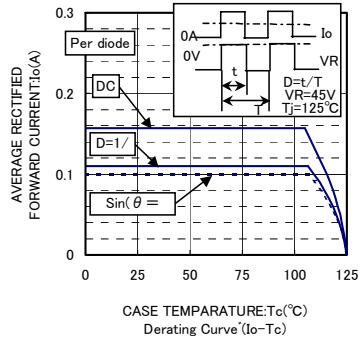
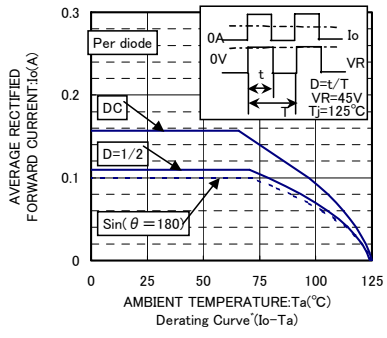


I_o - P_f CHARACTERISTICS



V_R - P_r CHARACTERISTICS

Diodes



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