

# Schottky barrier diode

## RB480Y-90

**●Applications**

Low current rectification

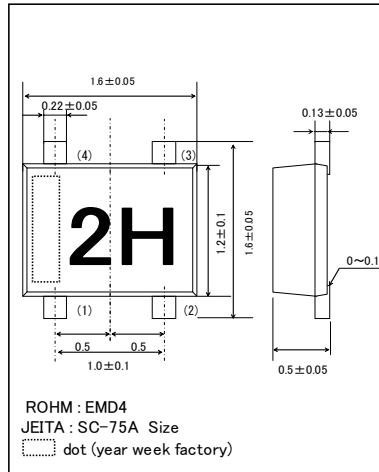
**●Features**

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

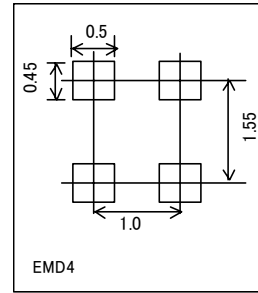
**●Construction**

Silicon epitaxial planar

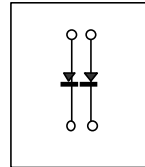
**●Dimensions (Unit : mm)**



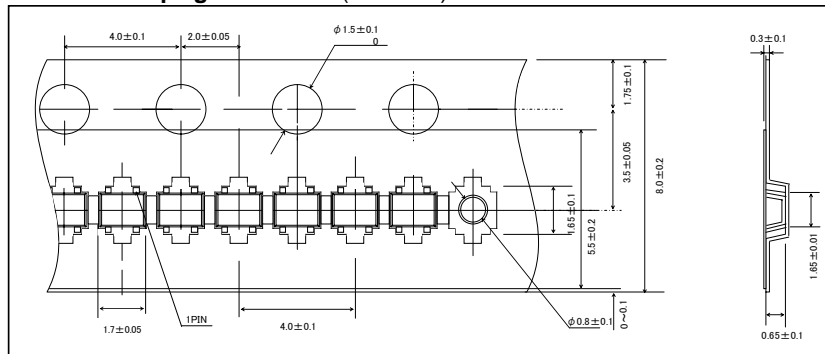
**●Land size figure (Unit : mm)**



**●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

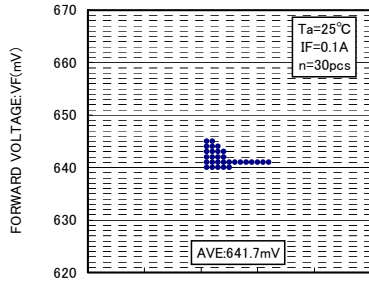
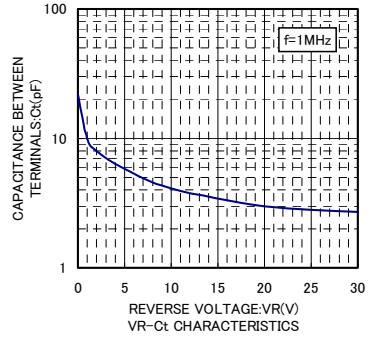
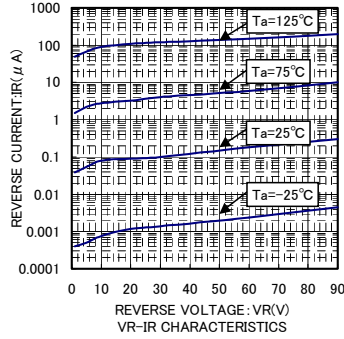
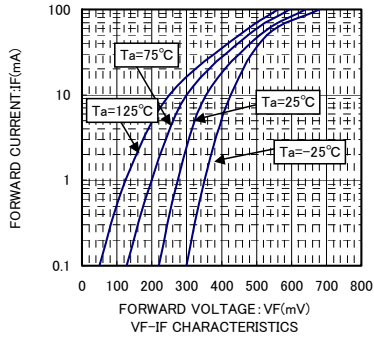
(\*1) Rating of per diode

**●Electrical characteristic (Ta=25°C)**

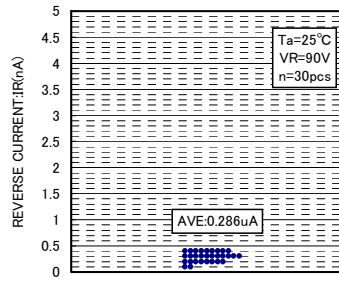
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.64	0.69	V	$I_F=100mA$
Reverse current	$I_R$	-	0.3	5	μA	$V_R=90V$

Diodes

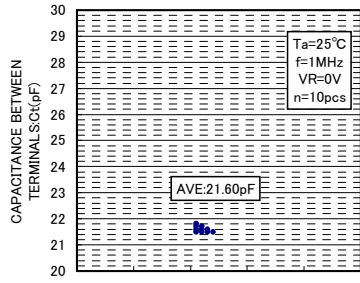
●Electrical characteristic curves



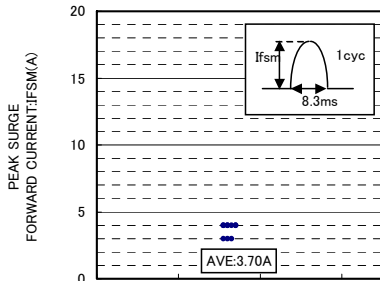
VF DISPERSION MAP



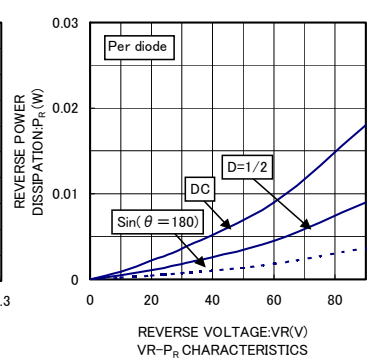
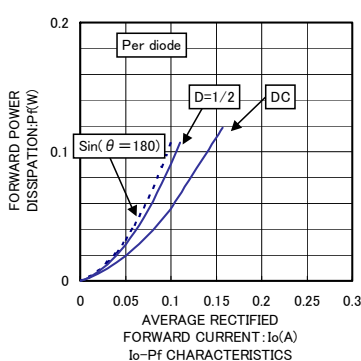
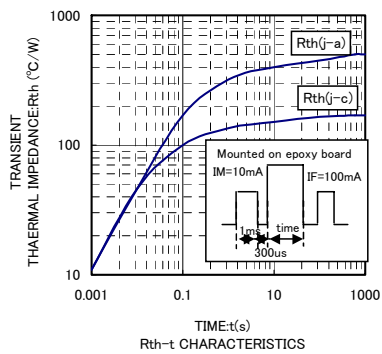
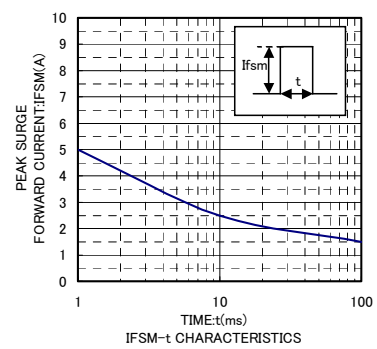
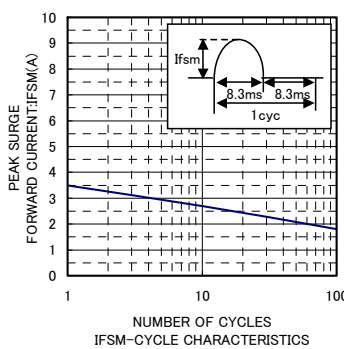
IR DISPERSION MAP



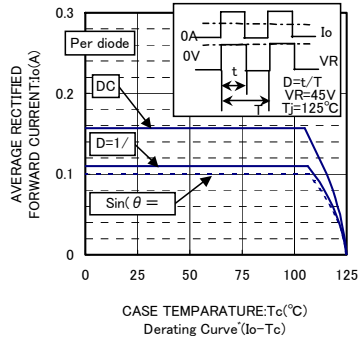
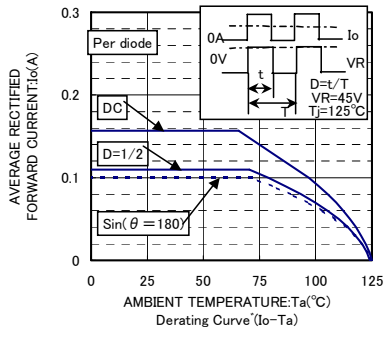
Ct DISPERSION MAP



IFSM DISERSION MAP



Diodes



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