

# Schottky Barrier Diode

RB481Y-40

## ● Applications

Rectifying small power

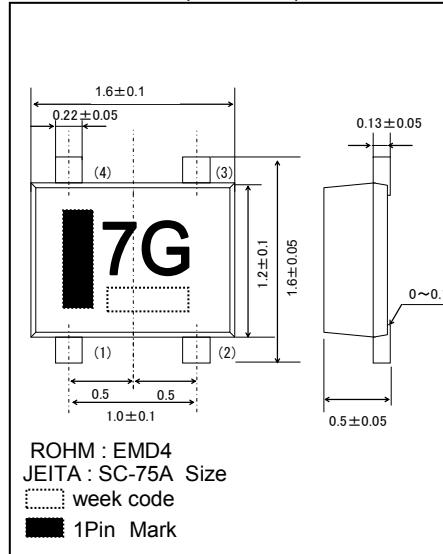
## ● Features

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

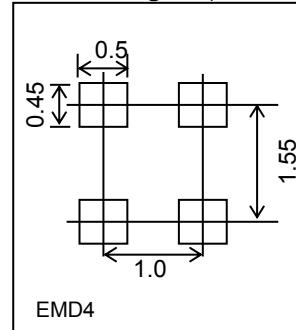
## ● Construction

Silicon epitaxial planar

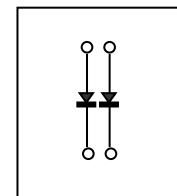
## ● Dimensions (Unit : mm)



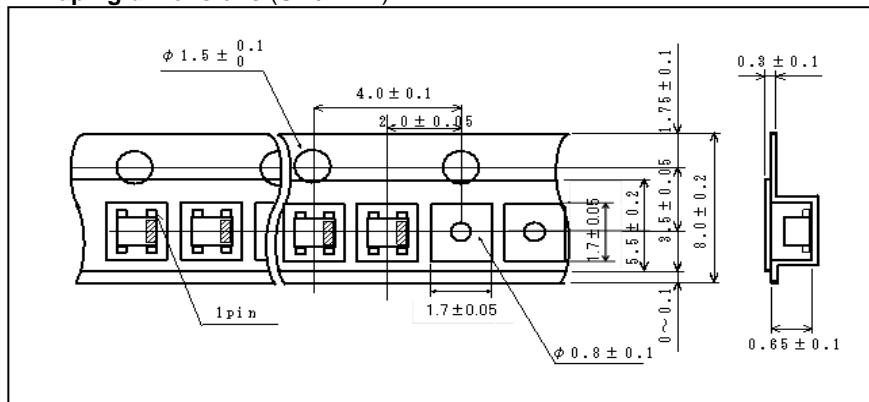
## ● Land size figure (Unit : mm)



## ● Structure



## ● Taping dimensions (Unit : mm)



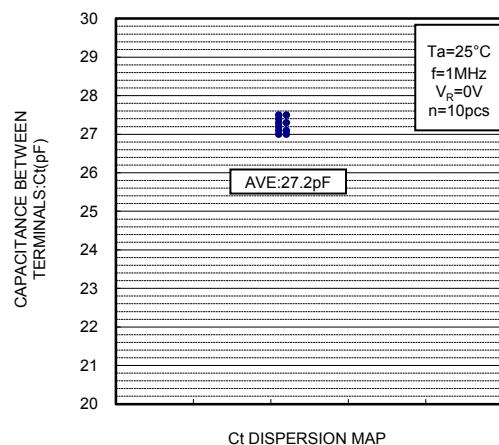
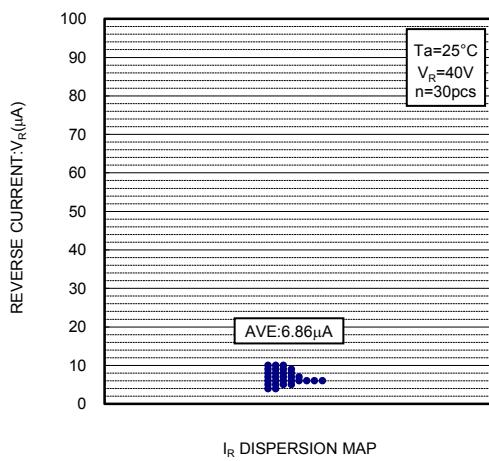
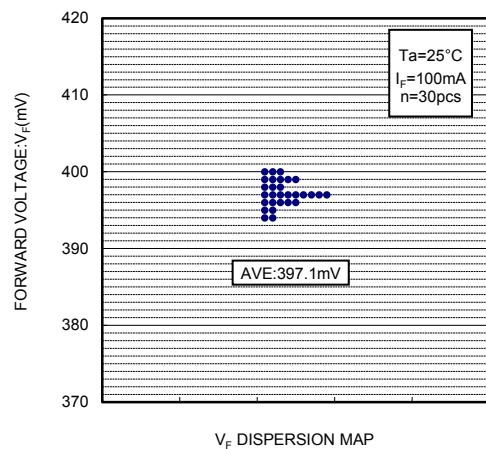
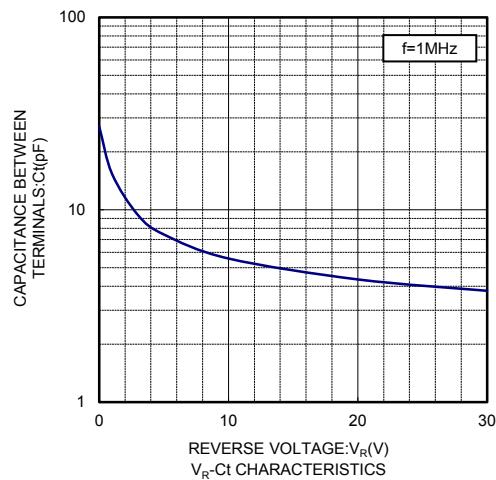
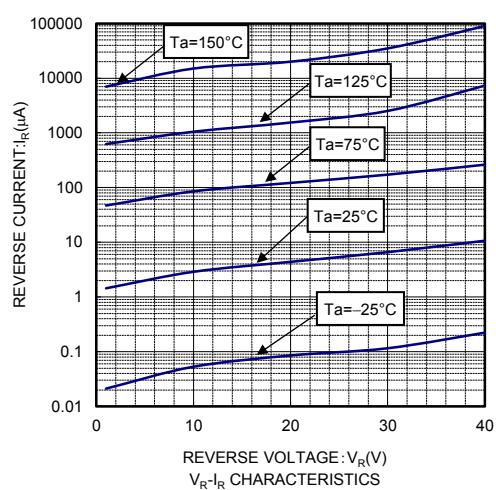
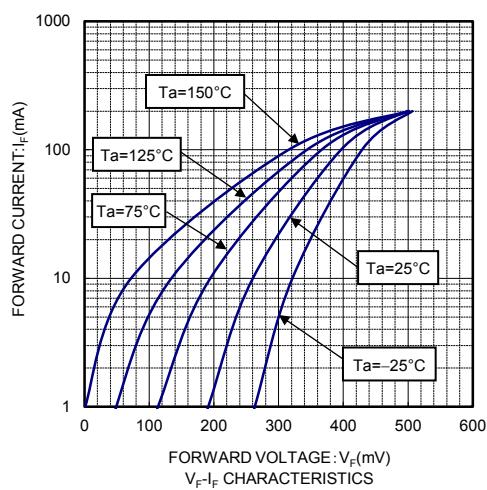
## ● Absolute maximum ratings (Ta=25°C)

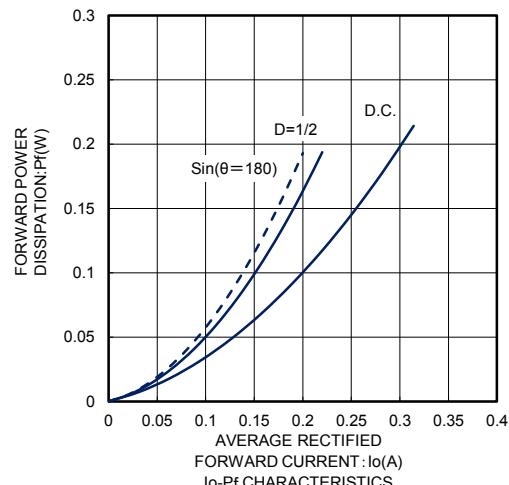
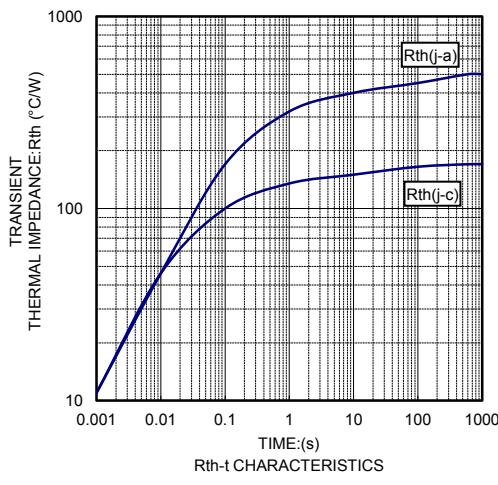
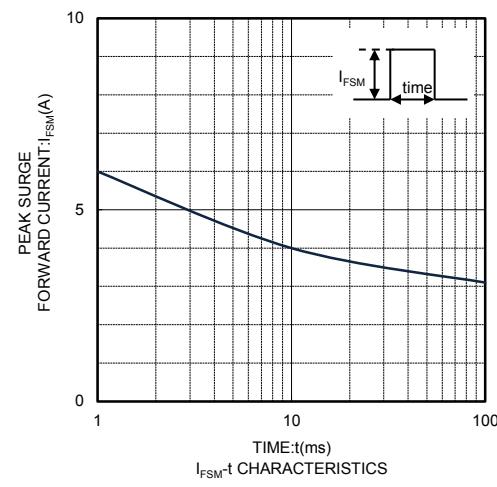
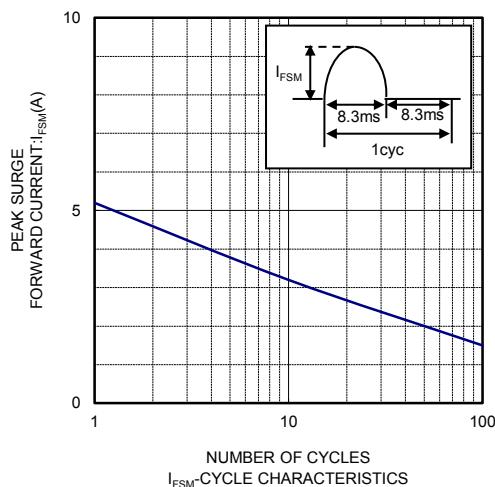
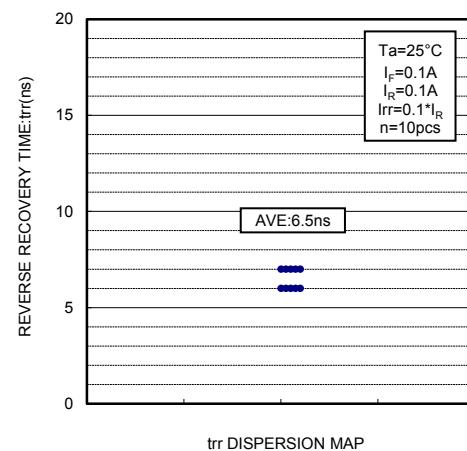
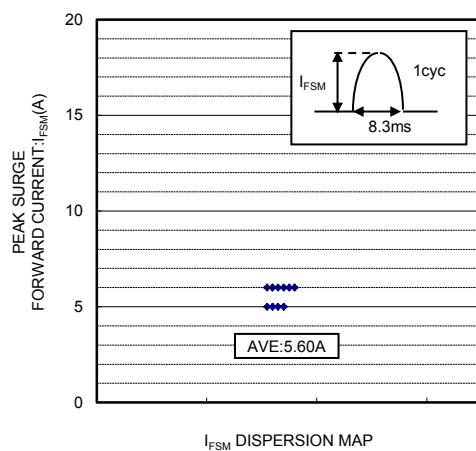
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current (*1)	$I_o$	200	mA
Forward current surge peak (60Hz · 1cyc) (*2)	$I_{FSM}$	1	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

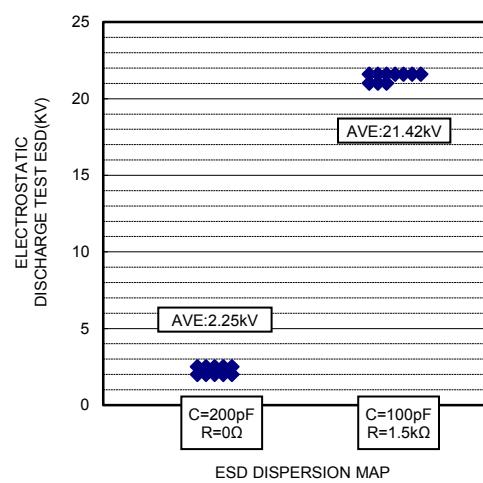
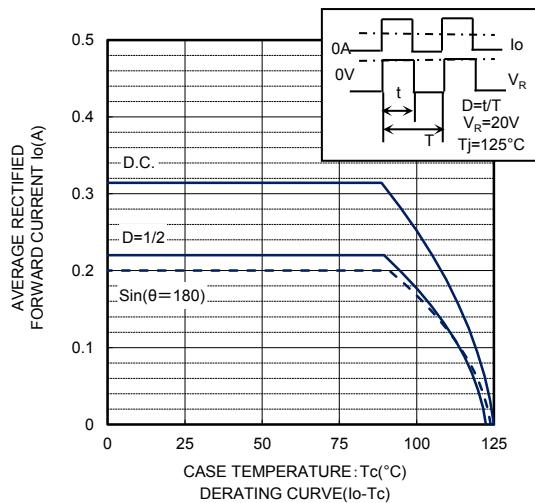
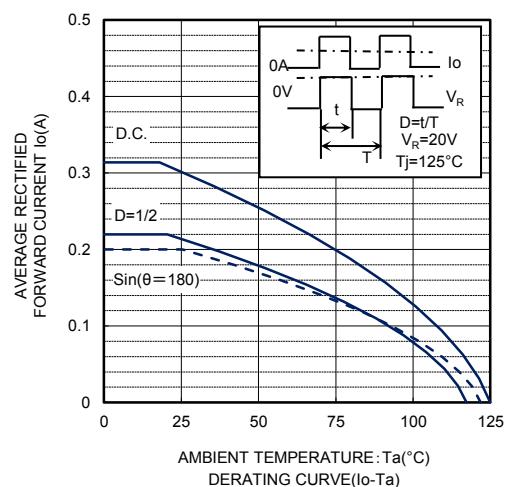
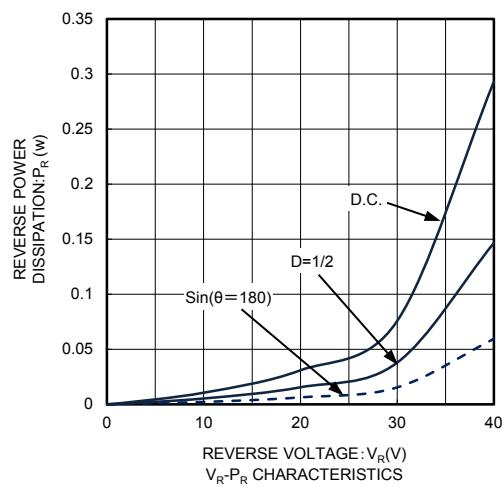
(\*1) Rating of per diode: 1/2  $I_o$     (\*2) Rating of per diode

## ● Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{F1}$	-	-	0.3	V	$I_F=10\text{mA}$
	$V_{F2}$	-	-	0.45	V	$I_F=100\text{mA}$
Reverse current	$I_{R1}$	-	-	20.0	$\mu\text{A}$	$V_R=10\text{V}$
	$I_{R2}$	-	-	90.0	$\mu\text{A}$	$V_R=40\text{V}$







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