

Schottky Barrier Diode

RB480Y-40

● Applications

Low current rectification

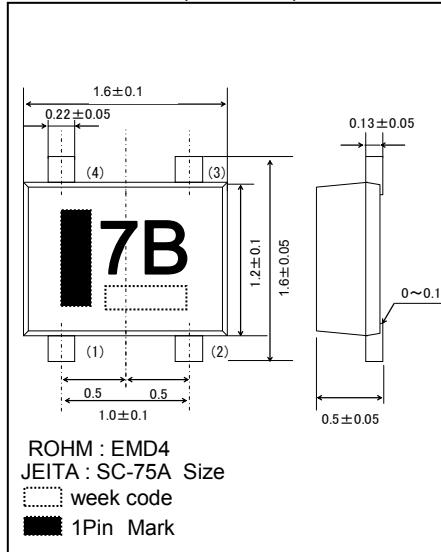
● Features

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

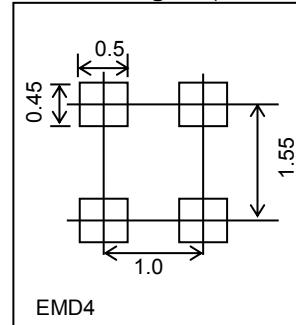
● Construction

Silicon epitaxial planer

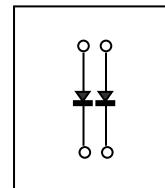
● Dimensions (Unit : mm)



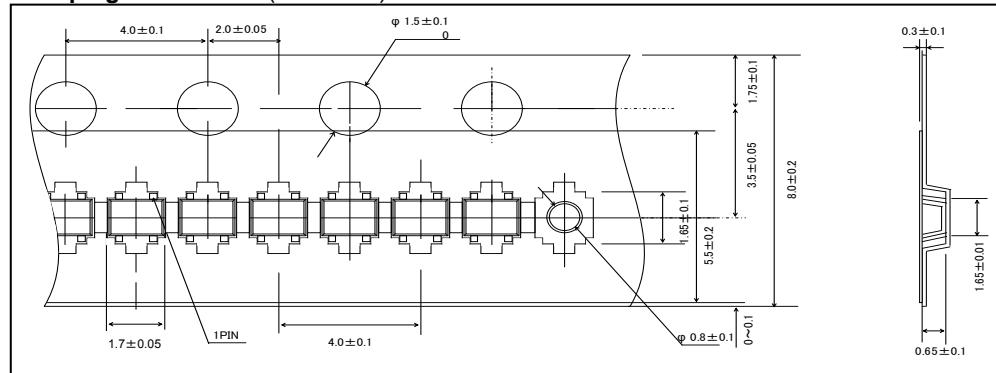
● Land size figure (Unit : mm)



● Structure



● Taping dimensions (Unit : mm)



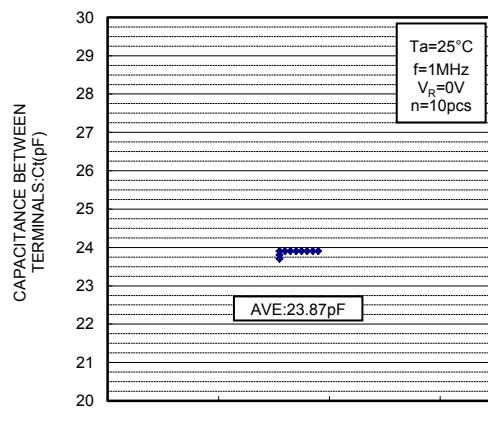
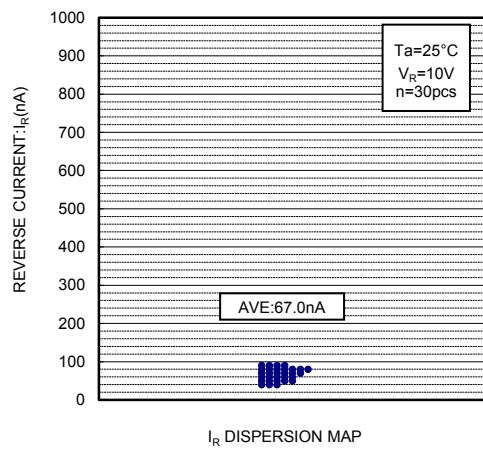
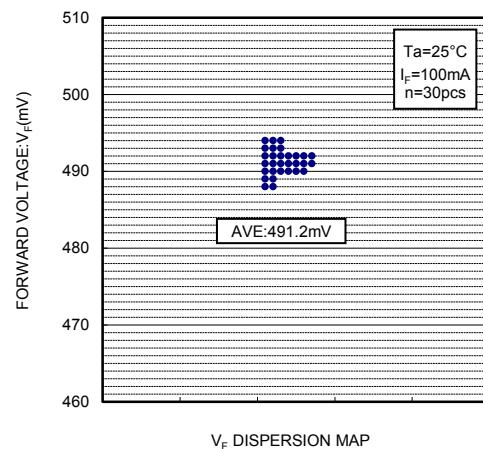
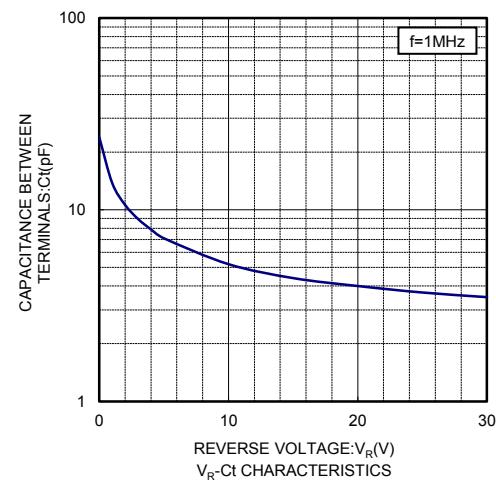
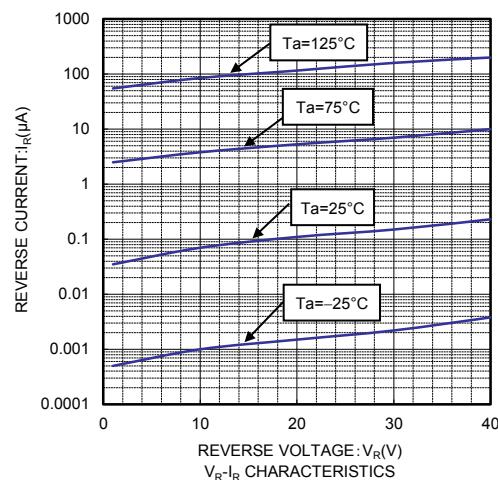
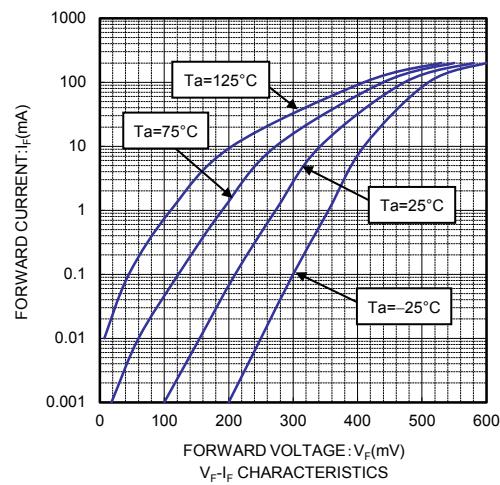
● Absolute maximum ratings ($T_a=25^\circ C$)

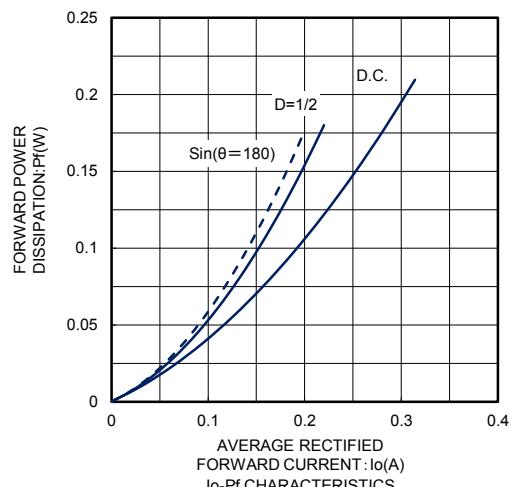
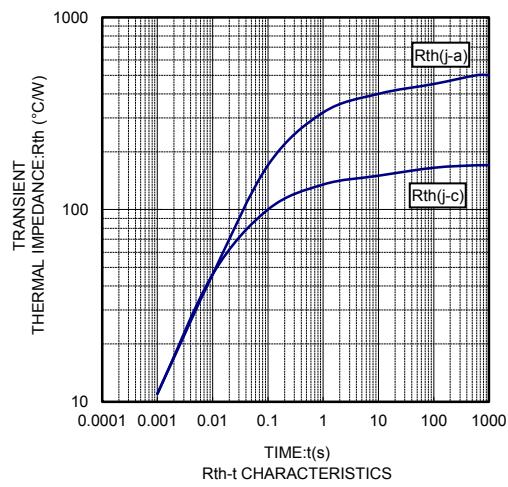
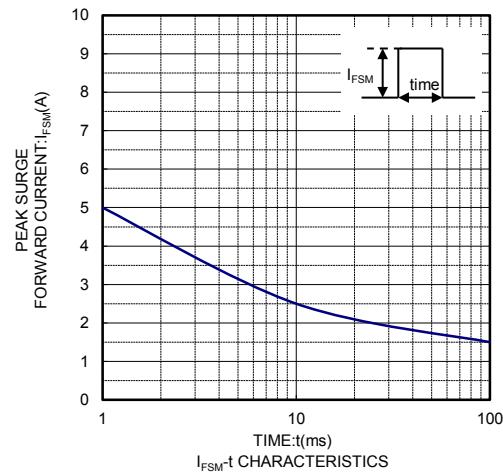
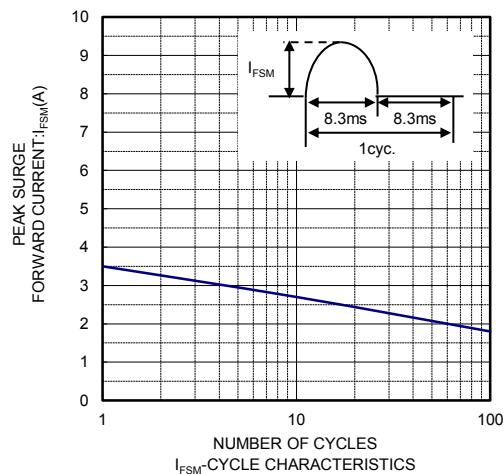
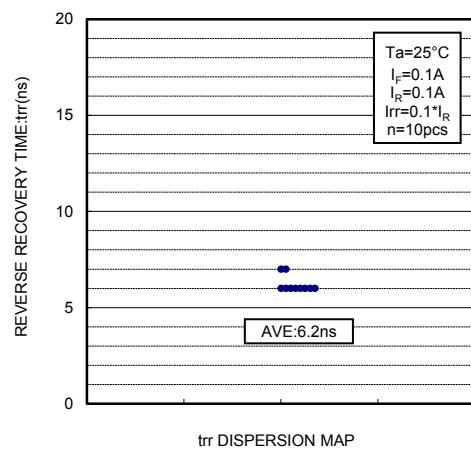
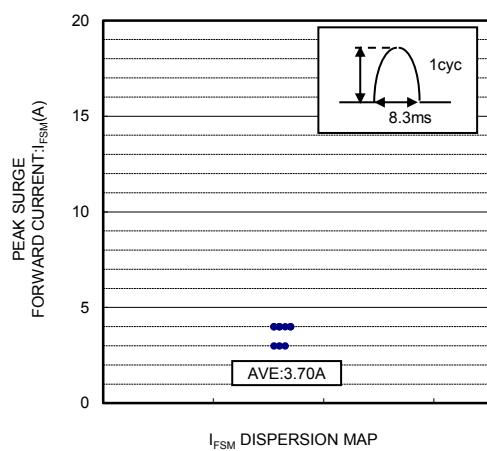
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current (*1)	I_o	200	mA
Forward current surge peak (60Hz · 1cyc) (*1)	I_{FSM}	1	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

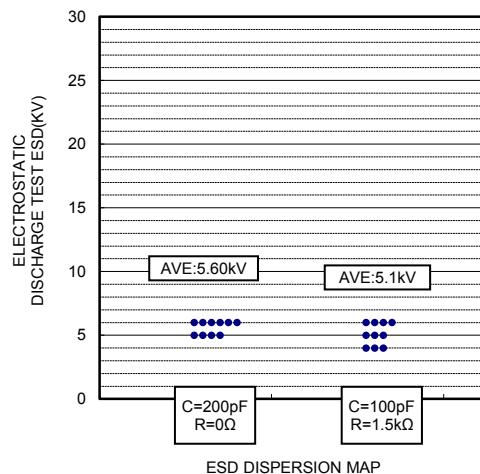
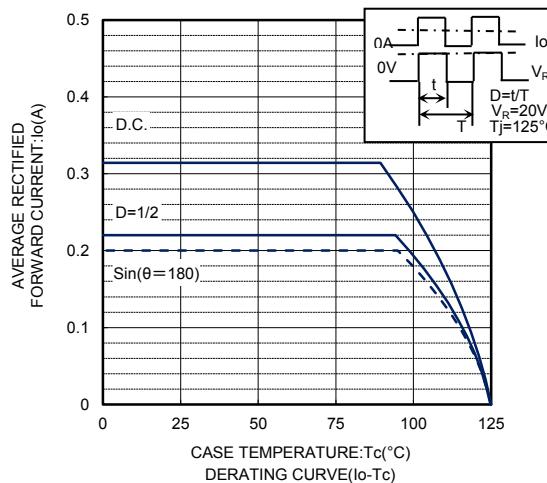
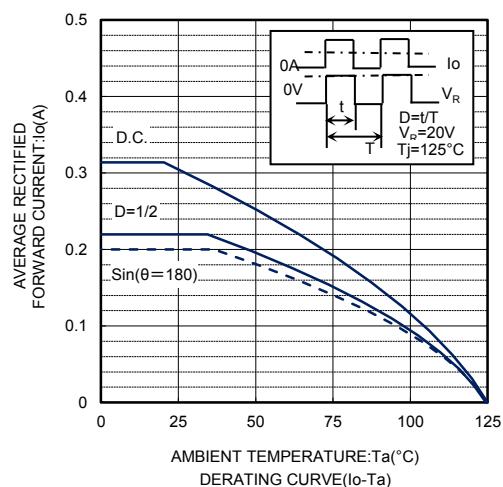
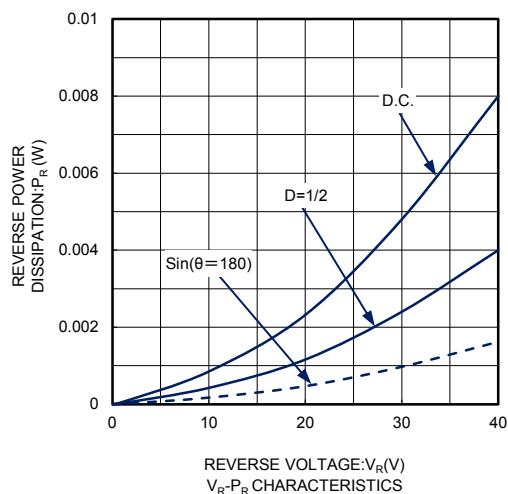
(*1) Rating of per diode

● Electrical characteristics ($T_a=25^\circ C$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.39	V	$I_F=10\text{mA}$
	V_{F2}	-	-	0.55	V	$I_F=100\text{mA}$
Reverse current	I_{R1}	-	-	1.0	μA	$V_R=10\text{V}$
	I_{R2}	-	-	10.0	μA	$V_R=40\text{V}$







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