

# Schottky barrier diode

## RB706D-40

●Applications

Low current rectification

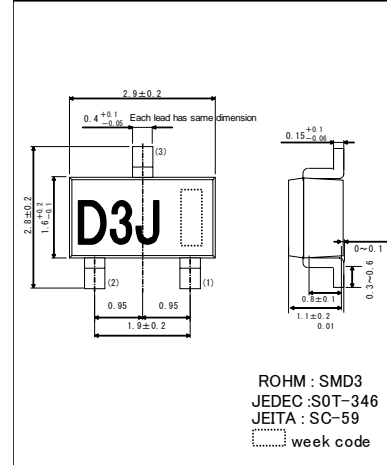
●Features

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

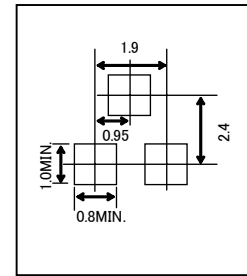
●Construction

Silicon epitaxial planar

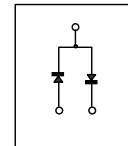
● External dimensions (Unit : mm)



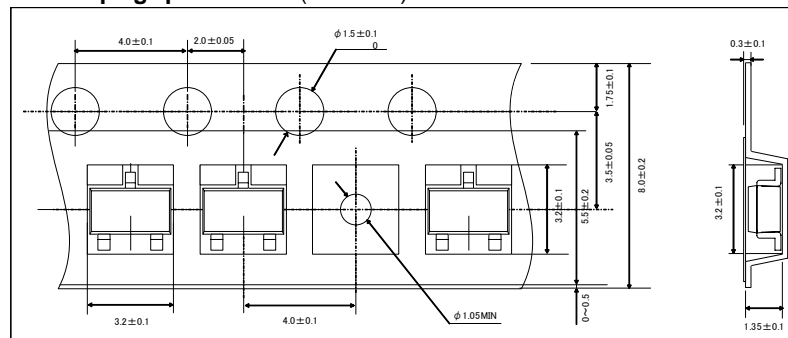
● Land size figure (Unit : mm)



● Structure



● Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	45	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current (*1)	$I_o$	30	mA
Forward current surge peak (60Hz·1cyc) (*1)	$I_{FSM}$	200	mA
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

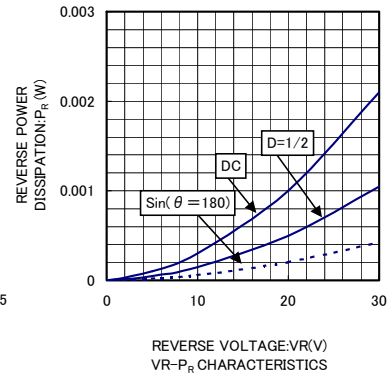
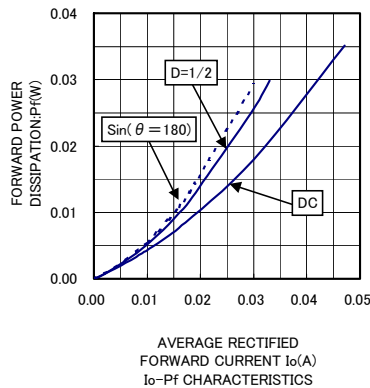
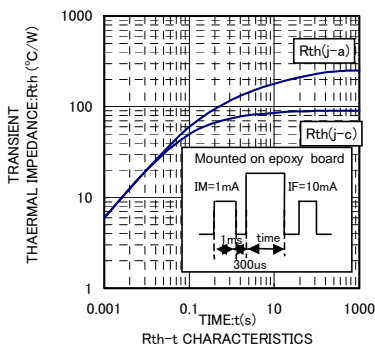
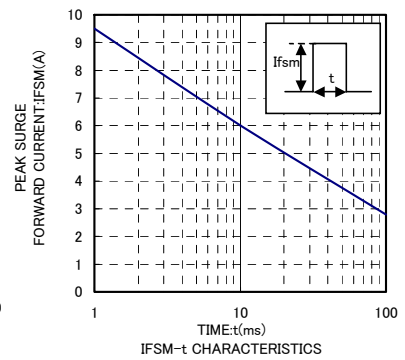
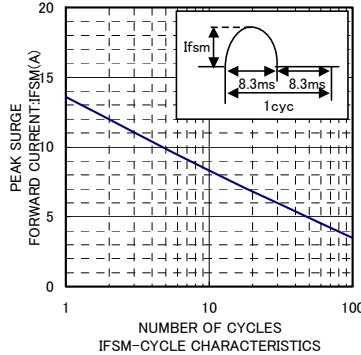
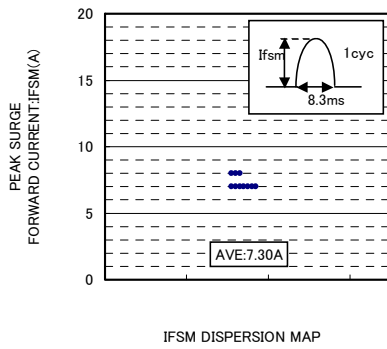
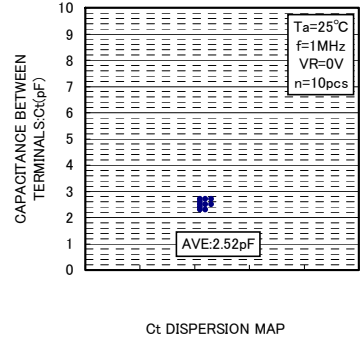
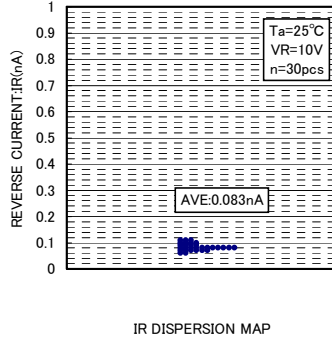
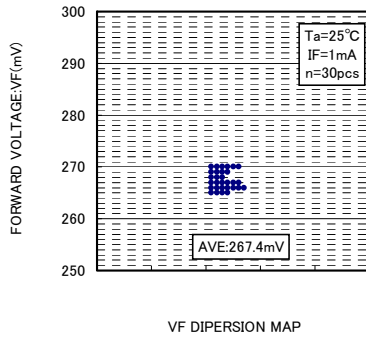
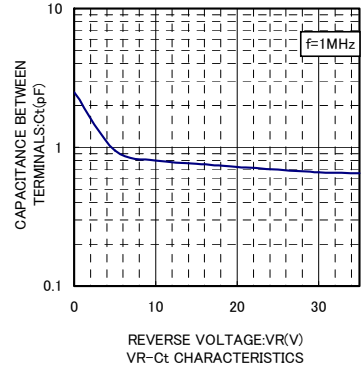
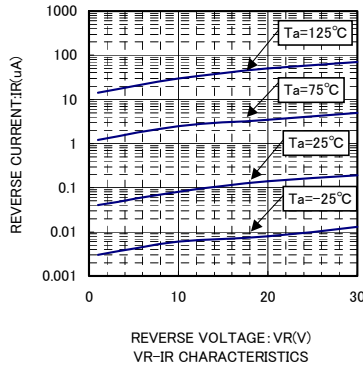
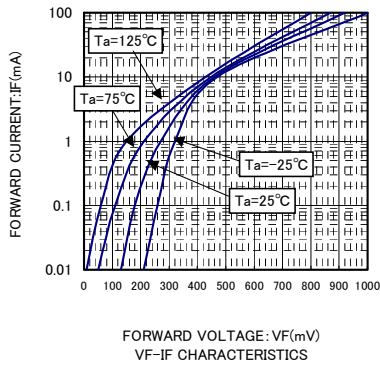
(\*1) Rating of per diode :  $I_o/2$

●Electrical characteristics (Ta=25°C)

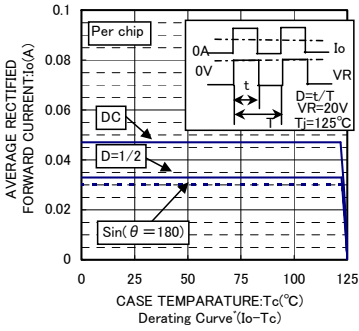
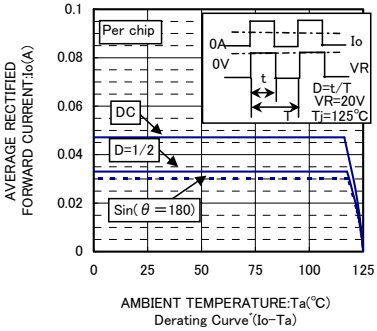
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{F1}$	-	-	0.37	V	$I_F=1mA$
Reverse current	$I_{R1}$	-	-	1	μA	$V_R=10V$
Capacitance between terminals	$C_{t1}$	-	2.0	-	pF	$V_R=1V, f=1MHz$

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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