

Schottky barrier diode

RB706D-40

● **Applications**

Low current rectification

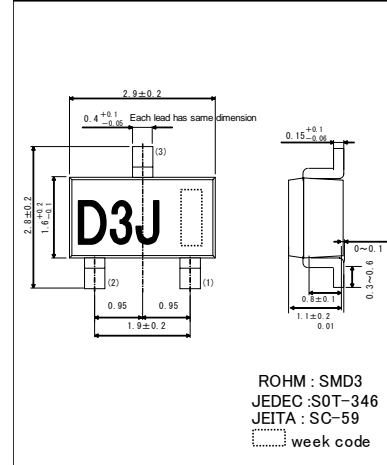
● **Features**

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

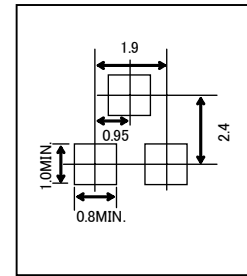
● **Construction**

Silicon epitaxial planar

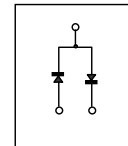
● **External dimensions (Unit : mm)**



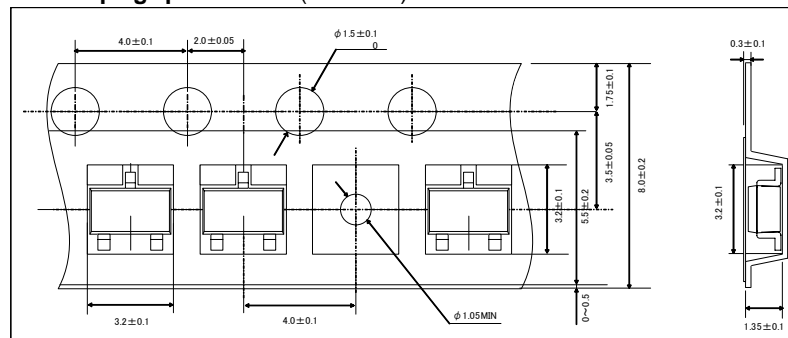
● **Land size figure (Unit : mm)**



● **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

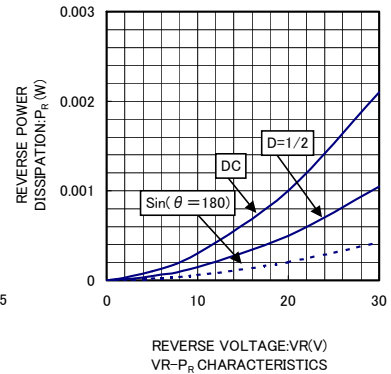
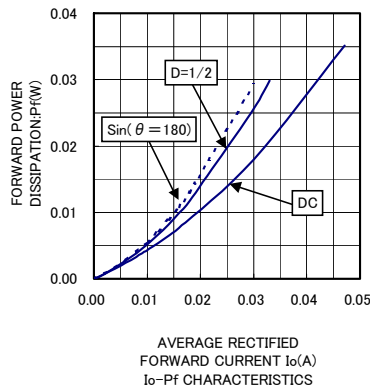
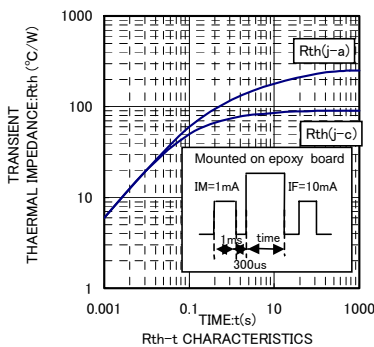
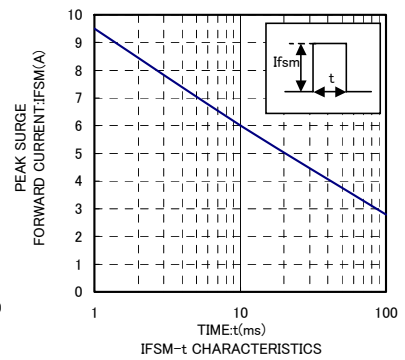
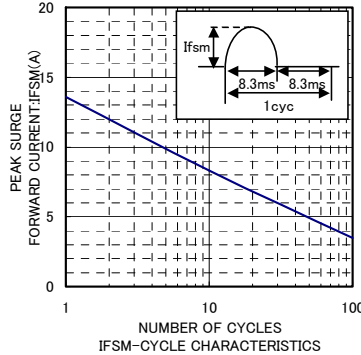
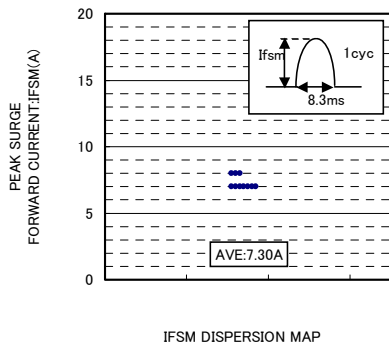
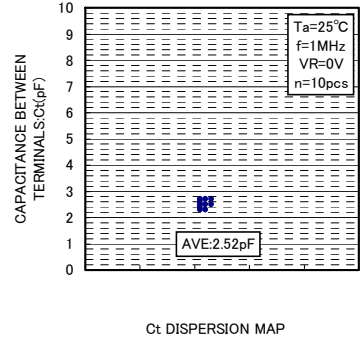
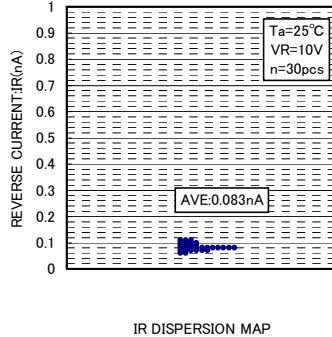
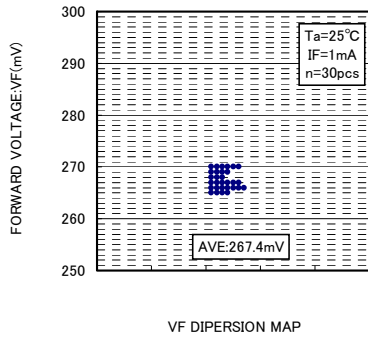
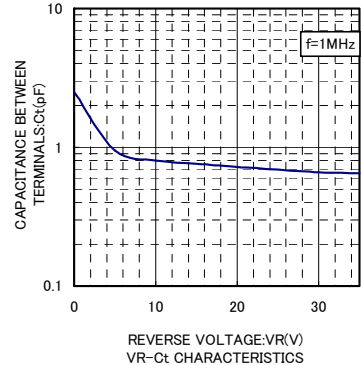
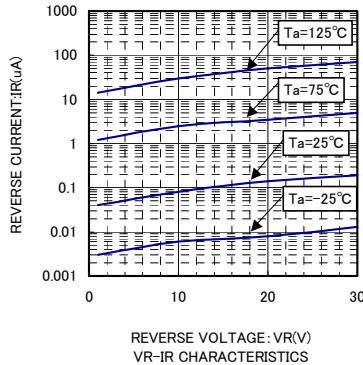
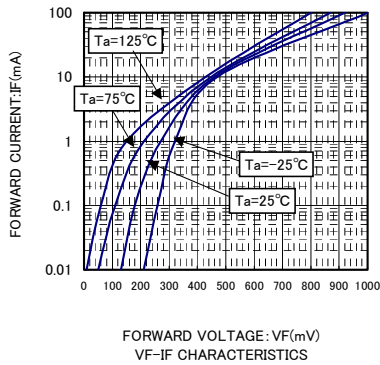
(*1) Rating of per diode : $I_o/2$

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

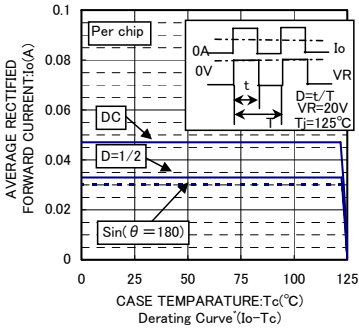
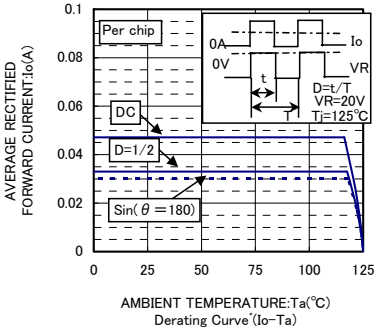
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.37	V	$I_F=1mA$
Reverse current	I_{R1}	-	-	1	μA	$V_R=10V$
Capacitance between terminals	C_{t1}	-	2.0	-	pF	$V_R=1V, f=1MHz$

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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