

# Shottky barrier diode

## RB706D-40

●Applications

Low current rectification

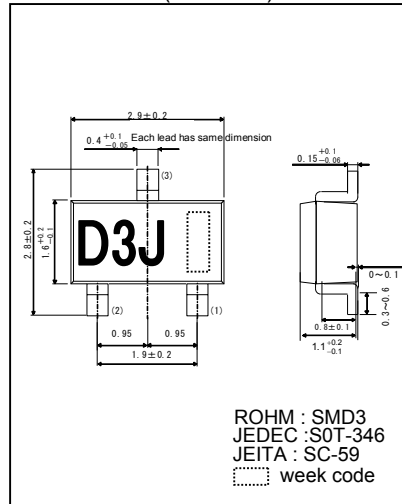
●Features

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

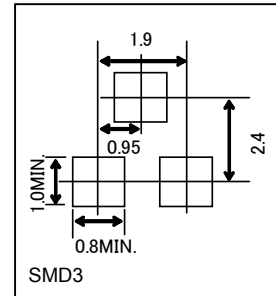
●Construction

Silicon epitaxial planar

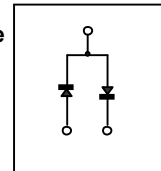
●Dimensions (Unit : mm)



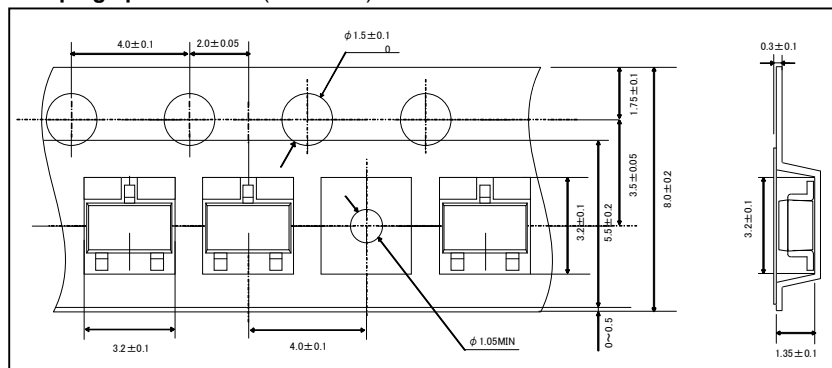
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



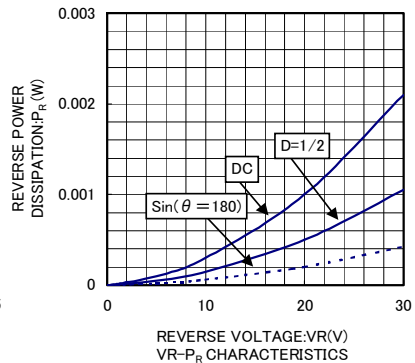
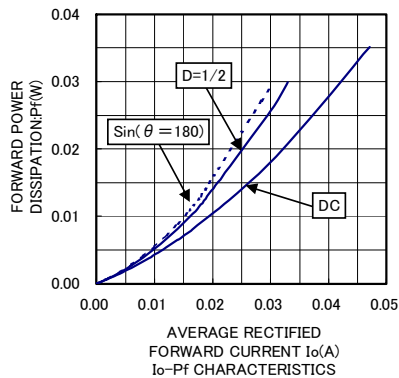
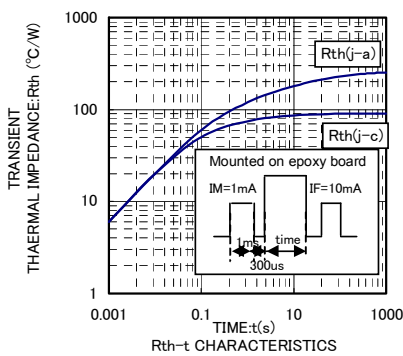
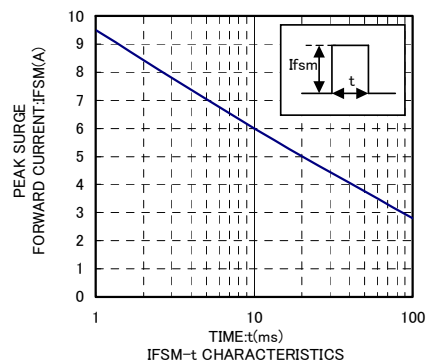
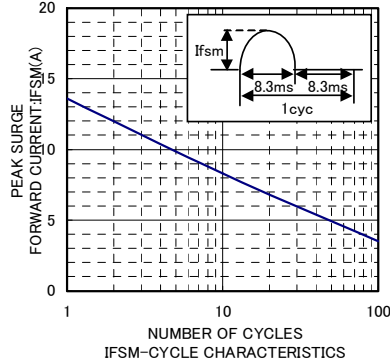
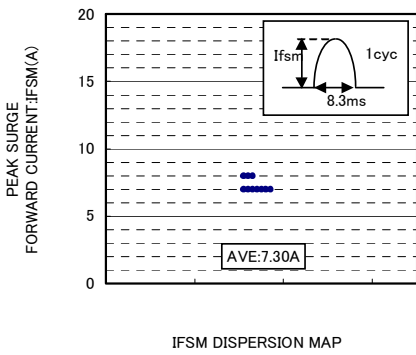
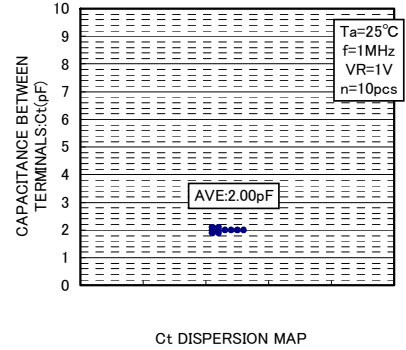
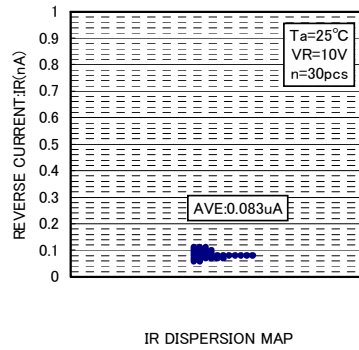
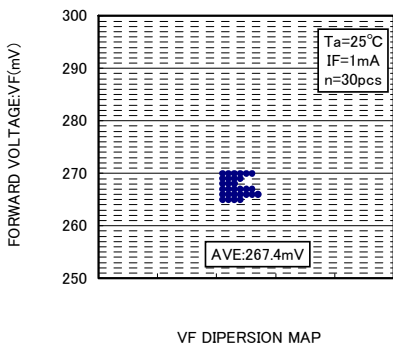
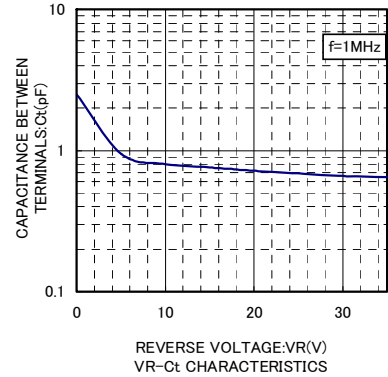
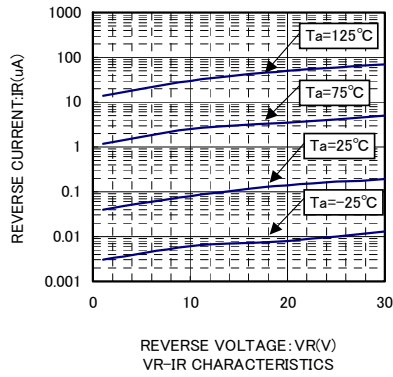
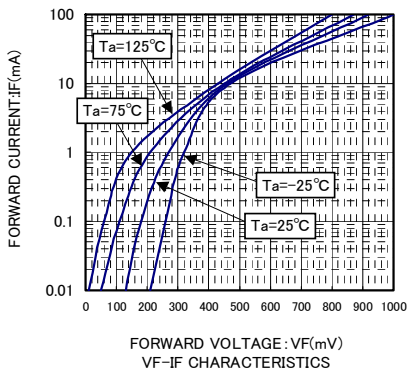
●Absolute maximum ratings ( $T_a=25^\circ\text{C}$ )

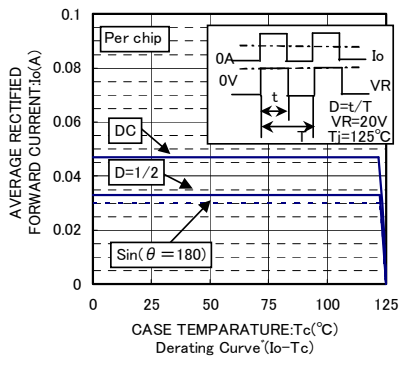
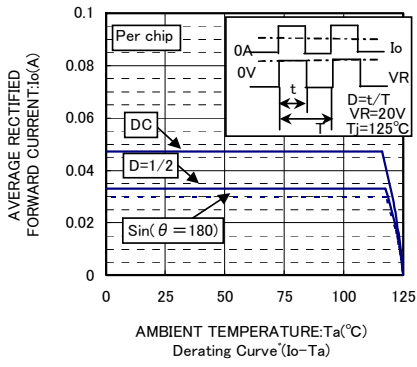
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	45	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward voltage (*1)	$I_o$	30	mA
Forward current surge peak (60Hz·1cyc) (*1)	$I_{FSM}$	200	mA
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40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

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

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F1$	-	-	0.37	V	$I_F=1\text{mA}$
Reverse current	$I_R1$	-	-	1	$\mu\text{A}$	$V_R=10\text{V}$
Capacitance between terminals	$C_{t1}$	-	2.0	-	pF	$V_R=1\text{V}$ , $f=1\text{MHz}$





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