

# Schottky barrier diode

## RB731U

●Applications

Low current rectification

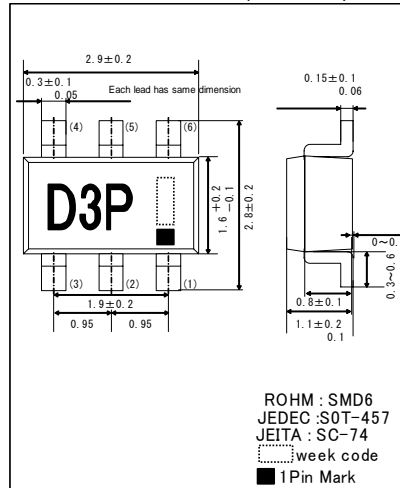
●Features

- 1) Small mold type. (SMD6)
- 2) Low I<sub>r</sub>
- 3) High reliability

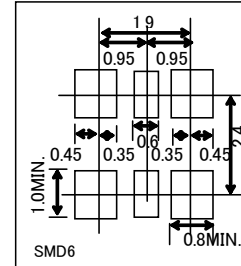
●Construction

Silicon epitaxial planar

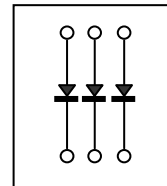
●External dimensions (Unit : mm)



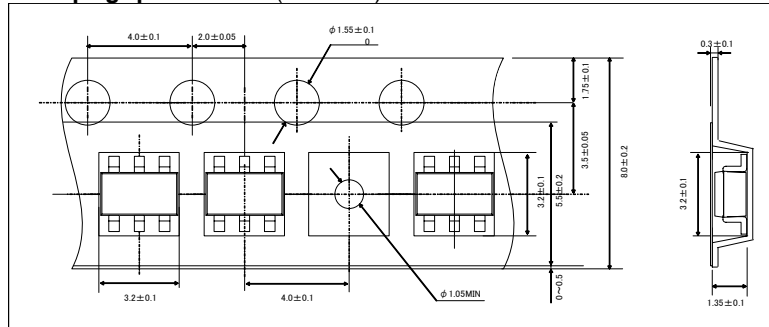
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (T<sub>a</sub>=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V <sub>RM</sub>	40	V
Reverse voltage (DC)	V <sub>R</sub>	40	V
Average rectified forward current (*1)	I <sub>o</sub>	30	mA
Forward current surge peak (60Hz · 1cyc)	I <sub>FSM</sub>	200	mA
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-40 to +125	°C

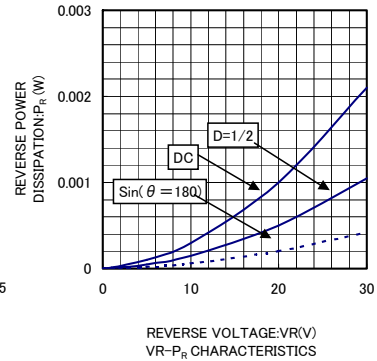
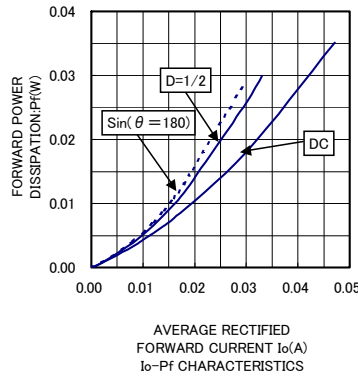
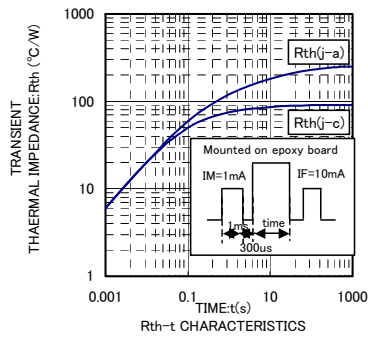
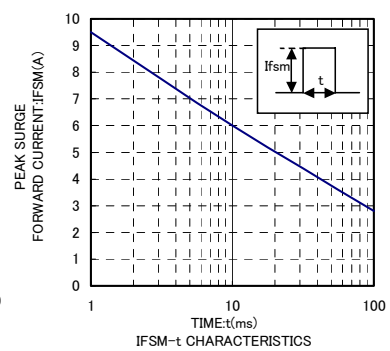
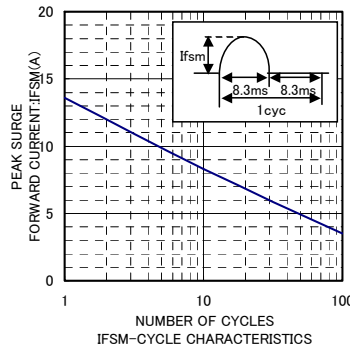
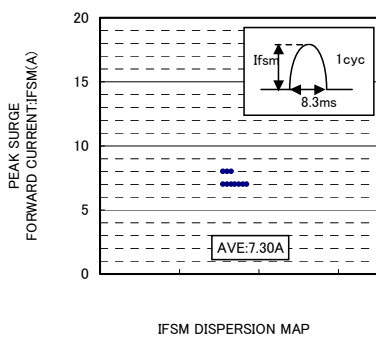
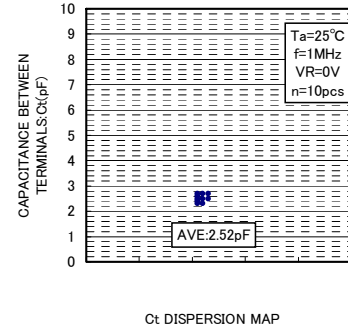
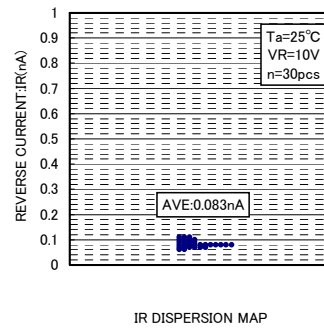
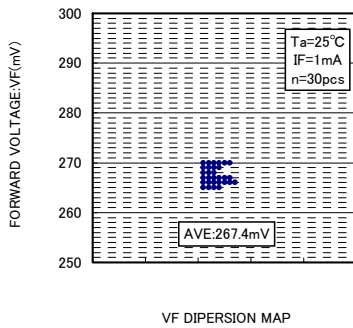
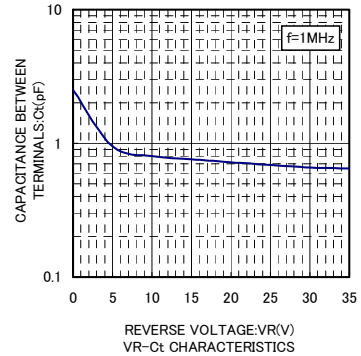
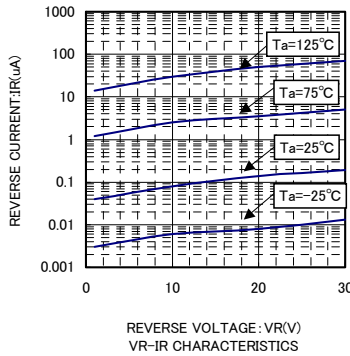
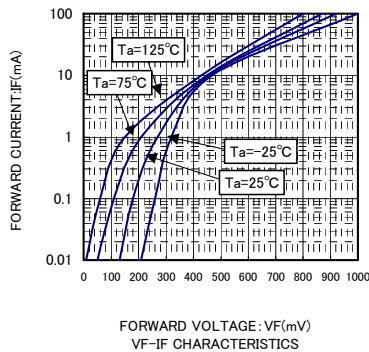
(\*1)Per chip : I<sub>o</sub>/3

●Electrical characteristics (T<sub>a</sub>=25°C)

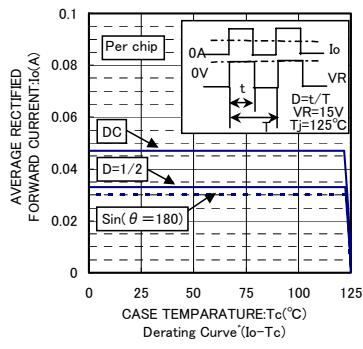
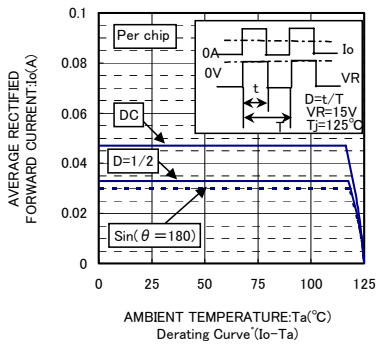
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	-	0.37	V	I <sub>F</sub> =1mA
Reverse current	I <sub>R</sub>	-	-	1	μA	V <sub>R</sub> =10V
Capacitance between terminals	C <sub>t</sub>	-	2.0	-	pF	V <sub>R</sub> =1V, f=1MHz

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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