

Shottky barrier diode

RB501V-40

●Application

Low current rectification

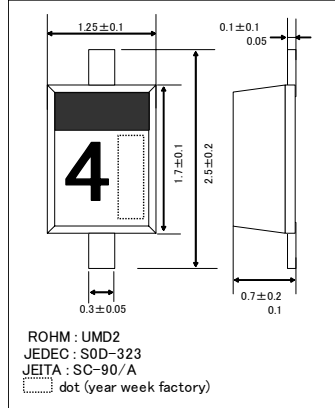
●Features

- 1) Ultra Small mold type. (UMD2)
- 2) Low I_R
- 3) High reliability.

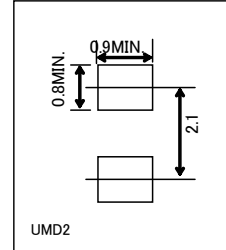
●Construction

Silicon epitaxial planer

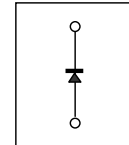
●External dimensions (Unit : mm)



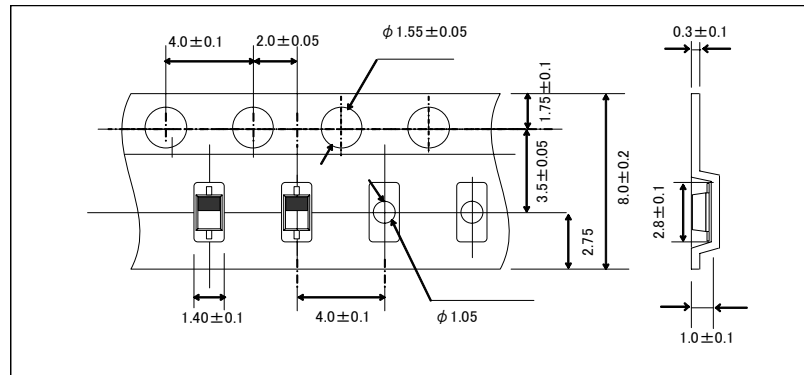
●Lead size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

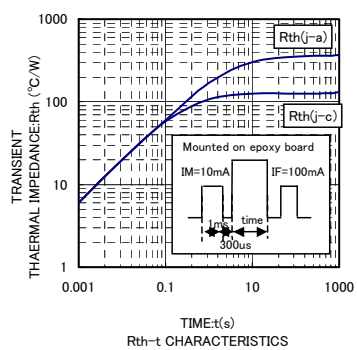
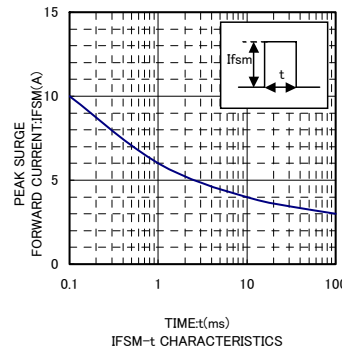
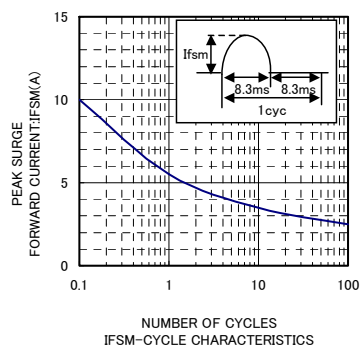
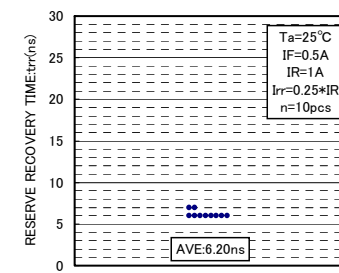
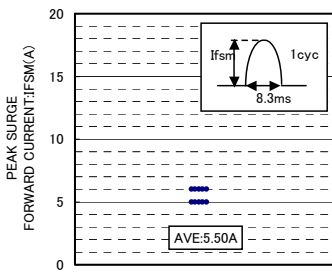
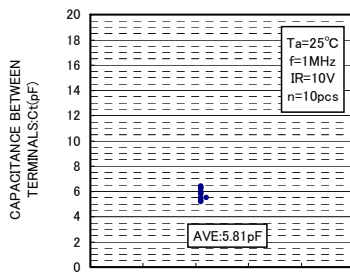
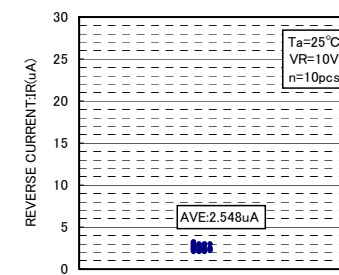
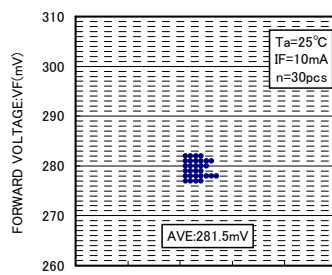
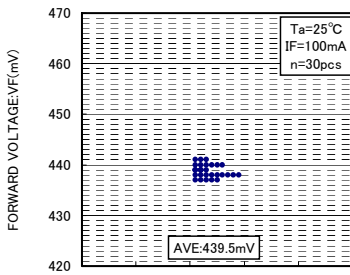
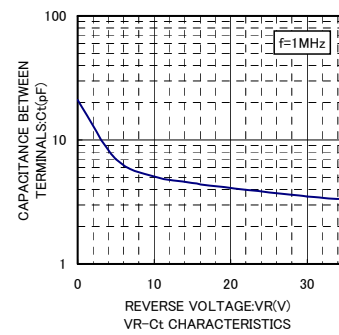
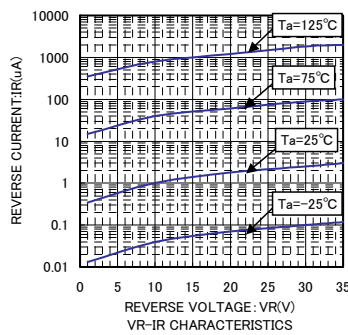
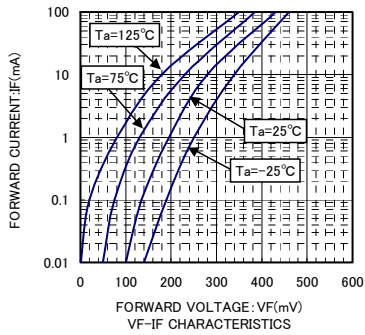
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V _{RM}	45	V
Reverse voltage (DC)	V _R	40	V
Average rectified forward current	I _o	100	mA
Forward current surge peak (60Hz · 1cyc)	I _{FSM}	1	A
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-40 to +125	°C

●Electrical characteristics (Ta=25°C)

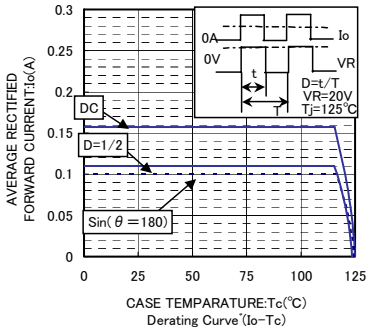
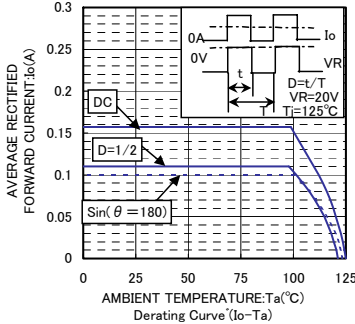
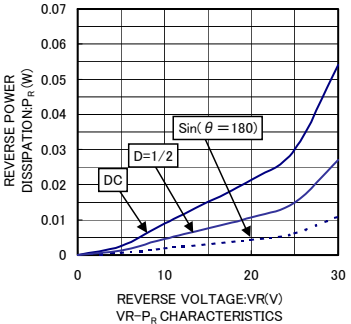
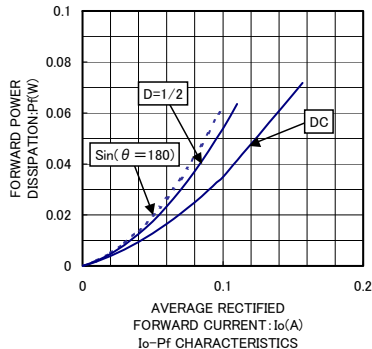
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _{F1}	-	-	0.55	V	I _F =100mA
	V _{F2}	-	-	0.34	V	I _F =10mA
Reverse current	I _R	-	-	30	μA	V _R =10V
Capacitance between terminals	C _t	-	6.0	-	pF	V _R =10V, f=1MHz

Diodes

● Electrical characteristic curves (Ta=25°C)



Diodes



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