Shottky barrier diode

RB500V-40

Application

Low current rectification

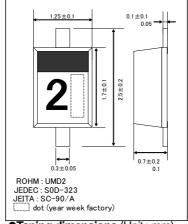
● Features

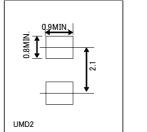
- 1) Ultra Small mold type. (UMD2)
- 2) Low IR
- 3) High reliability.

●Construction

Silicon epitaxial planar

●External dimensions (Unit : mm)

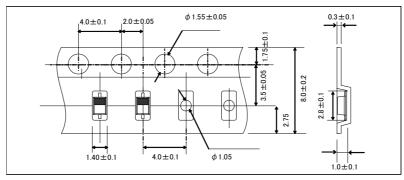




●Lead size figure (Unit : mm)

•Structure

● Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

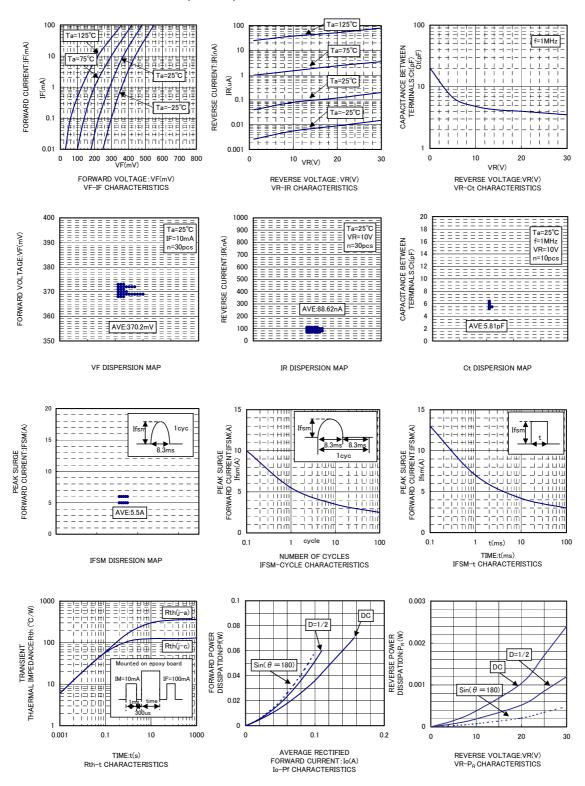
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	45	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current	lo	100	mA
Forward current surge peak (60Hz-1cyc)	I _{FSM}	1	Α
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-40 to +125	°C

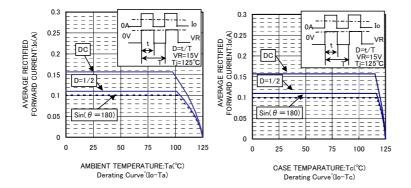
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	-	0.45	V	I _F =10mA
Reverse current	I _R	-	-	1	μΑ	V _R =10V
Capacitance between terminals	Ct	-	6.0	-	pF	V _R =10V , f=1MHz

Rev.A

●Electrical characteristic curves (Ta=25°C)





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