

Diodes

Schottky barrier diode

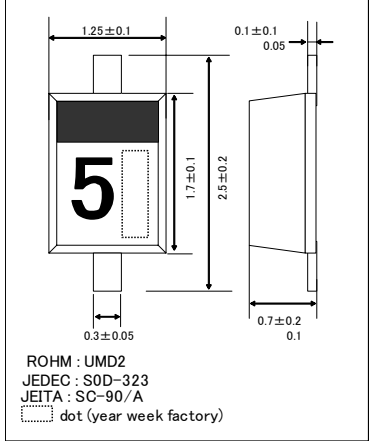
RB751V-40

●Applications
Low current rectification

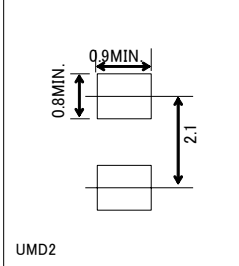
●Features
1) Ultra small mold type. (UMD2)
2) Low V_F
3) High reliability

●Construction
Silicon epitaxial planar

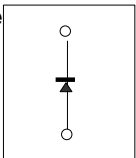
●External dimensions (Unit : mm)



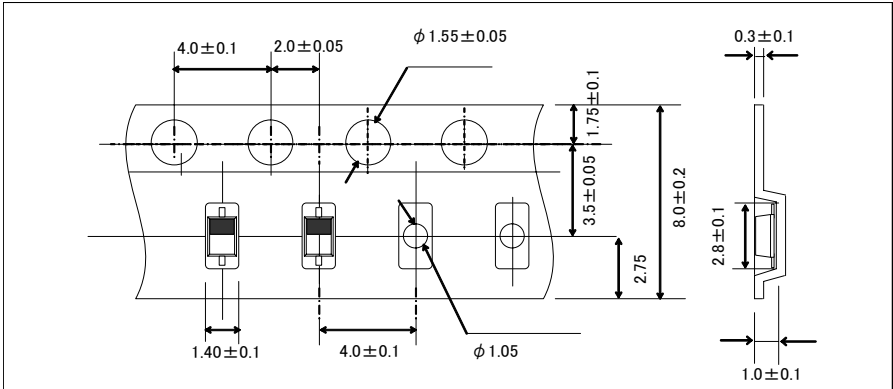
●Land size figure



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

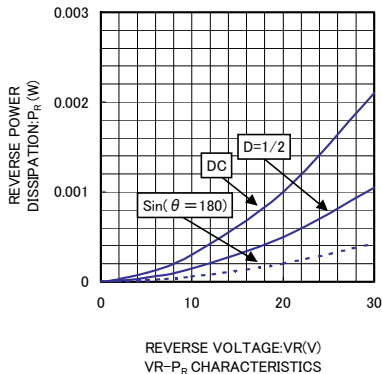
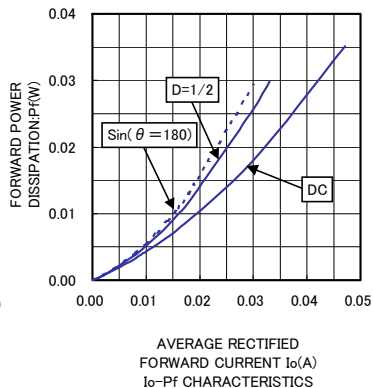
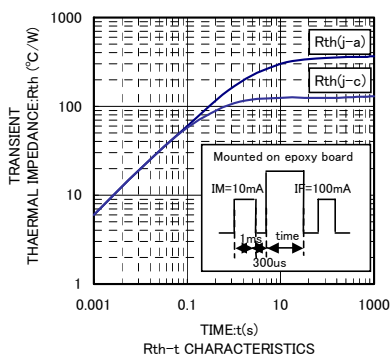
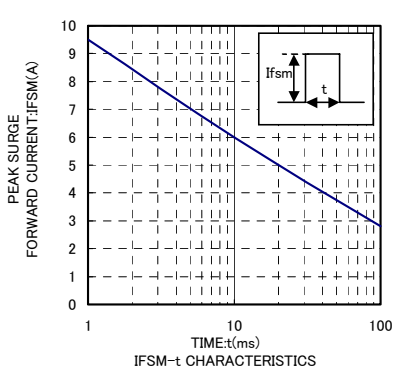
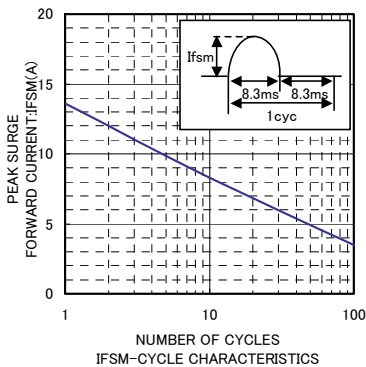
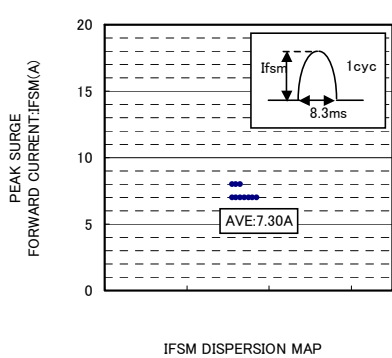
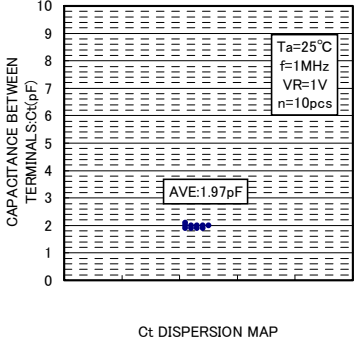
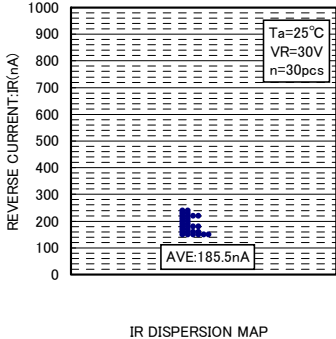
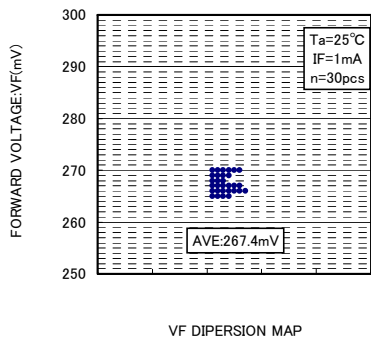
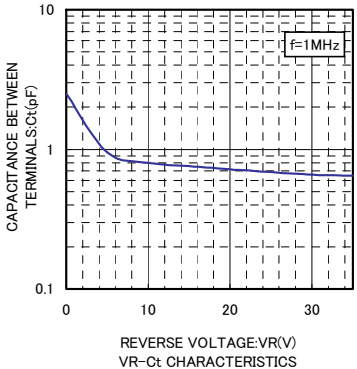
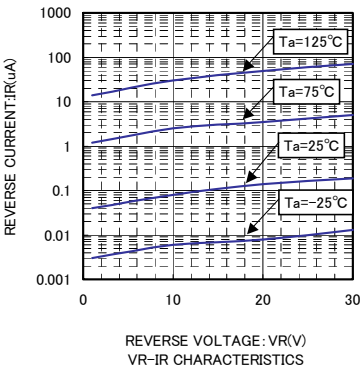
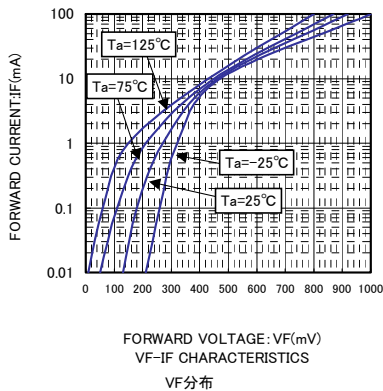
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_o	30	mA
Forward current surge peak (60Hz·1cyc)	I_{FSM}	200	mA
Junction temperature	T_J	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

●Electrical characteristic (Ta=25°C)

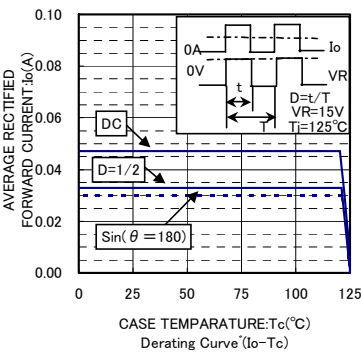
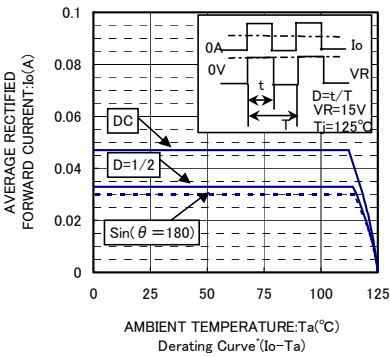
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.37	V	$I_F=1\text{ mA}$
Reverse current	I_R	-	-	0.5	μA	$V_R=30\text{ V}$
Capacitance between terminal	C_t	-	2	-	pF	$V_R=1\text{ V}, f=1\text{ MHz}$

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●Electrical characteristic curves



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