

Diodes

Schottky barrier diode

RB751G-40

●Applications

General rectification

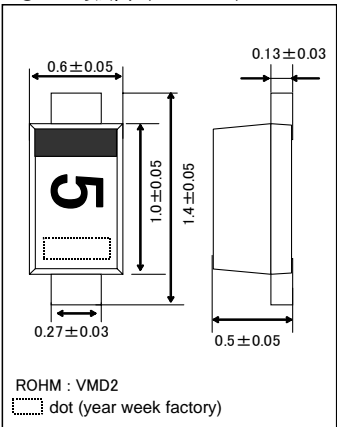
●Features

- 1) Small power mold type.
(VMD2)
- 2) Low V_F
- 3) High reliability

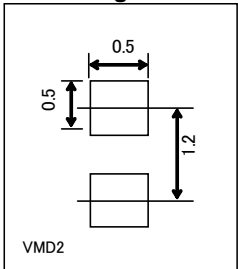
●Construction

Silicon epitaxial planar

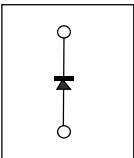
●External dimensions (Unit : mm)



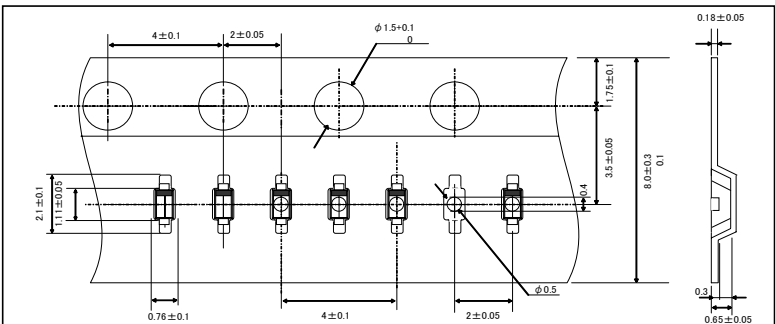
●Land size figure



●Structure



●Taping dimensions (Unit : mm)



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

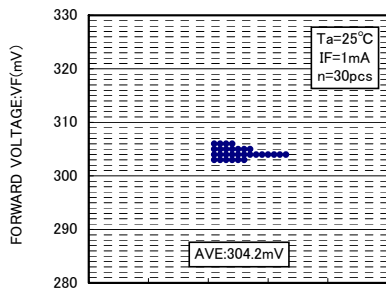
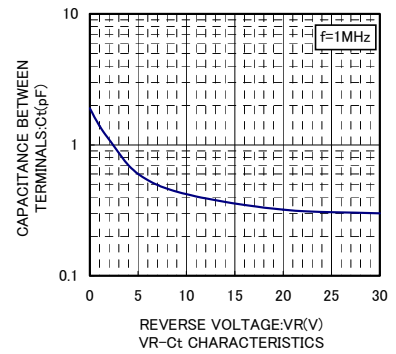
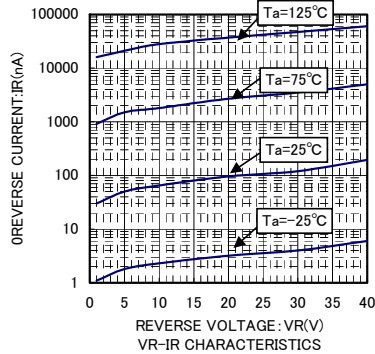
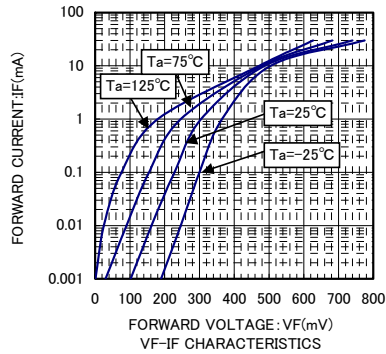
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_o	30	mA
Forward current surge peak (60Hz·1cyc)	I_{FSM}	200	mA
Junction temperature	T_j	125	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^{\circ}\text{C}$

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

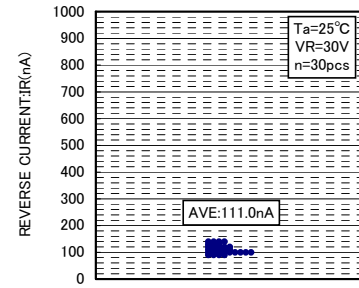
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.37	V	$I_F=1\text{mA}$
Reverse current	I_R	-	-	0.5	μA	$V_R=30\text{V}$
Capacitance between terminals	C_t	-	2	-	pF	$V_R=1\text{V}$, $f=1\text{MHz}$

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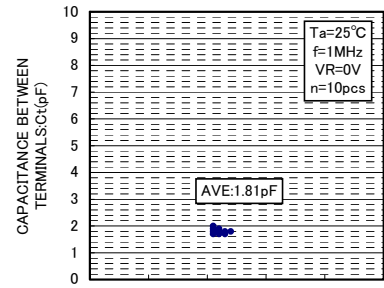
●Electrical characteristic curves



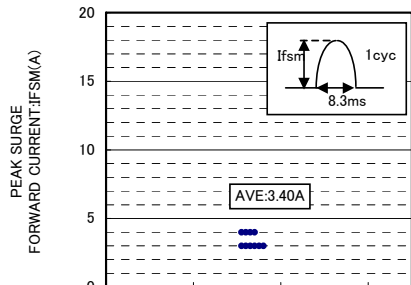
VF DISPERSION MAP



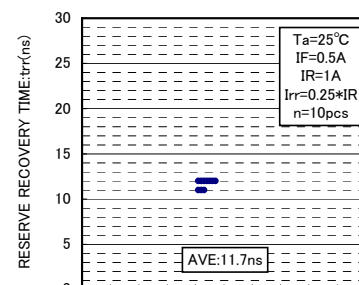
IR DISPERSION MAP



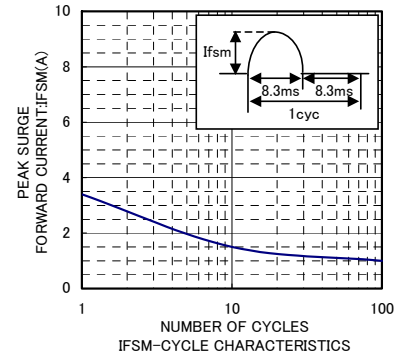
Ct DISPERSION MAP



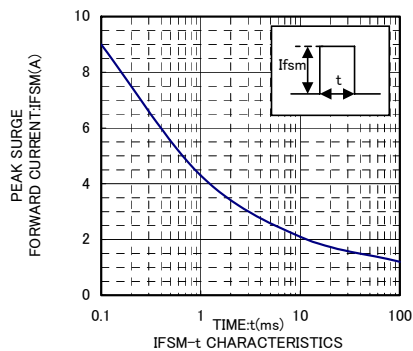
IFSM DISERSION MAP



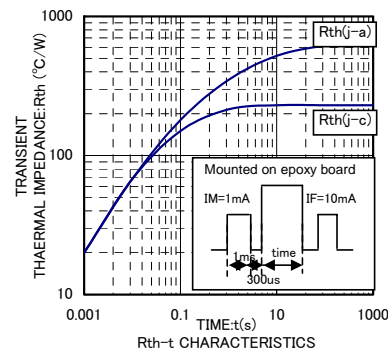
trr DISPERSION MAP



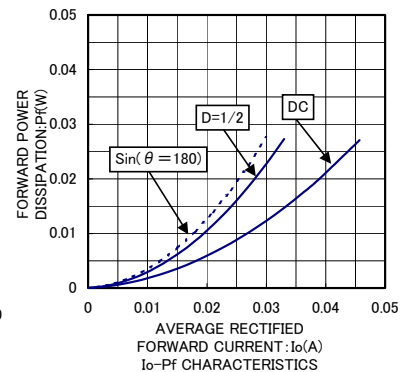
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS

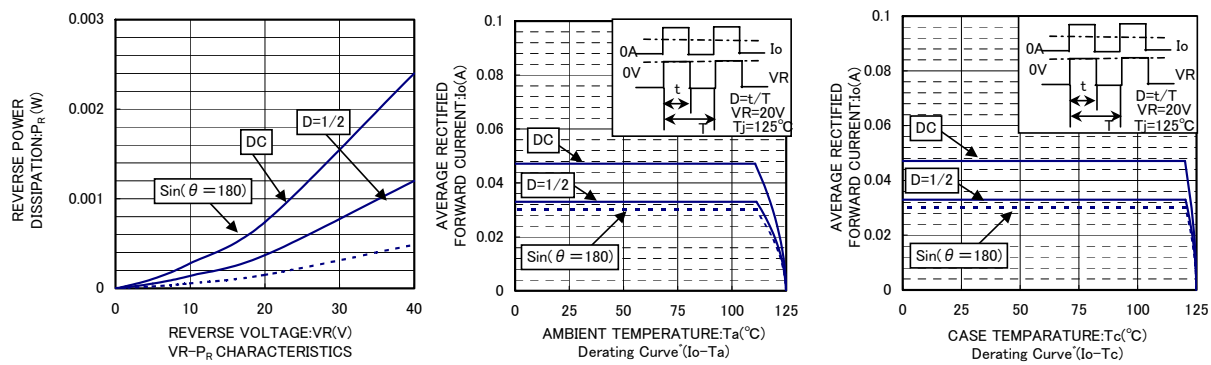


Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS

Diodes



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