

RB160VA-40

Diodes

Schottky barrier diode

RB160VA-40

●Applications

General rectification

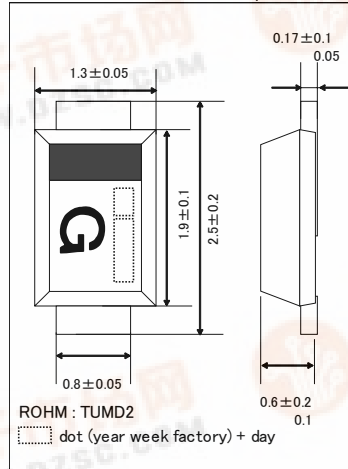
●Features

- 1) Small mold type. (TUMD2)
- 2) Low I_F , Low I_R .
- 3) High reliability.

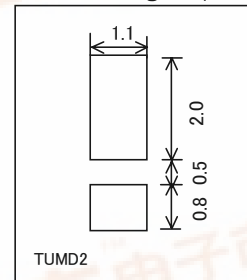
●Construction

Silicon epitaxial planar

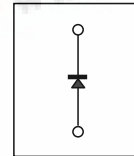
● External dimensions (Unit : mm)



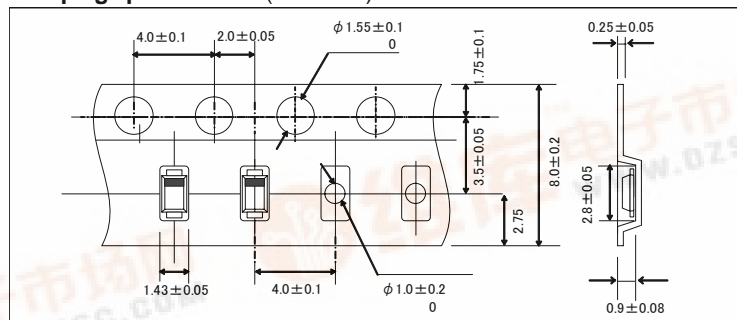
● Land size figure (Unit : mm)



●Structure



● Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

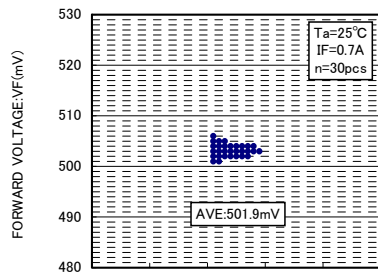
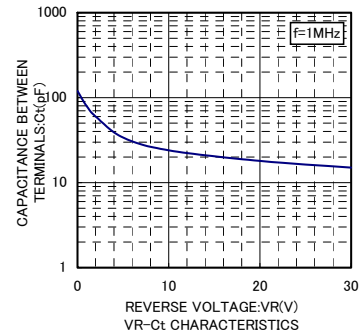
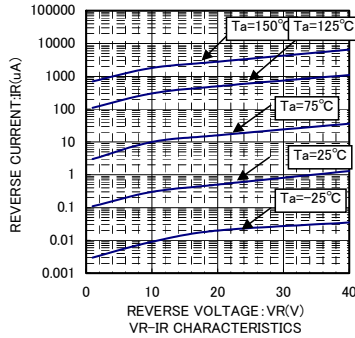
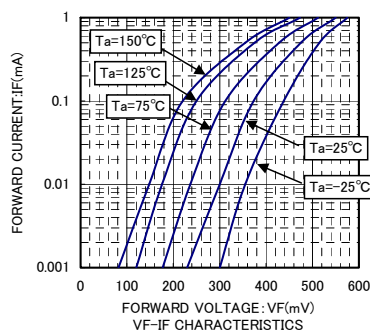
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current	I_O	1	A
Forward peak surge current (60Hz·1cyc)	I_{FSM}	5	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

●Electrical characteristics (Ta=25°C)

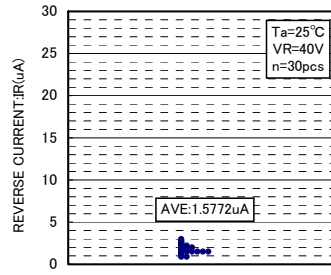
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.50	0.55	V	$I_F=700mA$
Reverse current	I_R	-	1.5	50	μA	$V_R=40V$

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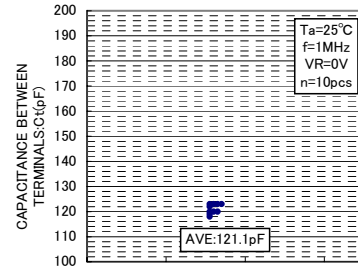
●Electrical characteristic curves (Ta=25°C)



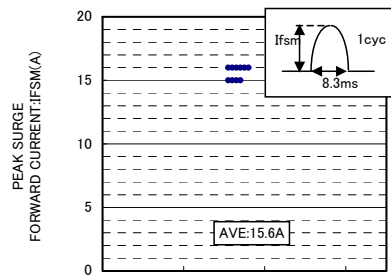
VF DISPERSION MAP



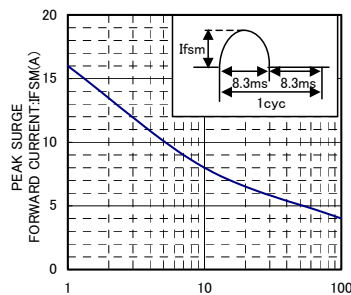
IR DISPERSION MAP



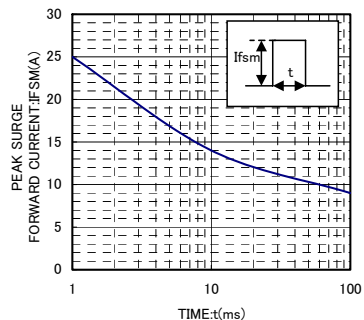
Ct DISPERSION MAP



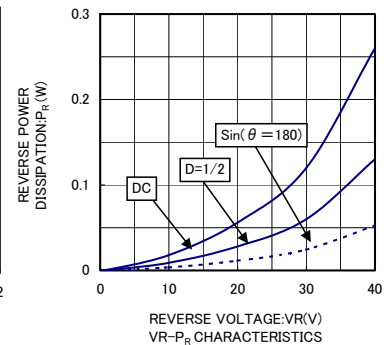
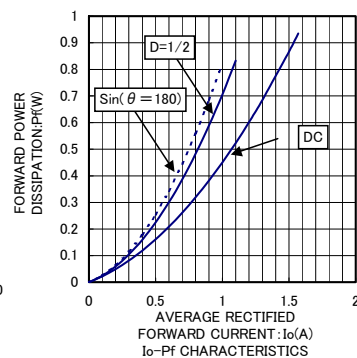
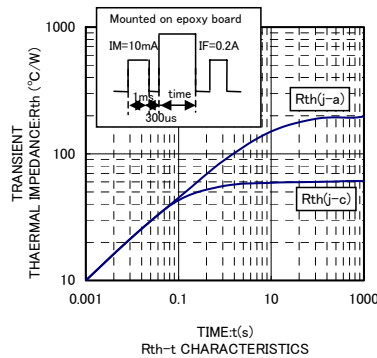
IFSM DISERSION MAP



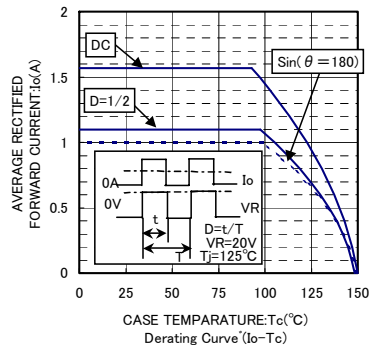
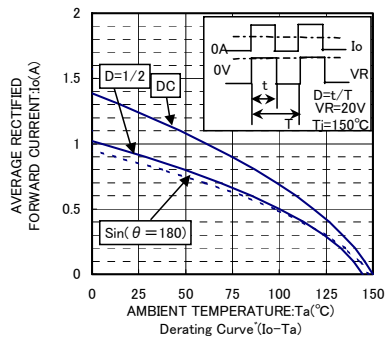
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS



Diodes



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