

Schottky Barrier Diode

RB061US-30

● **Applications**

General rectification

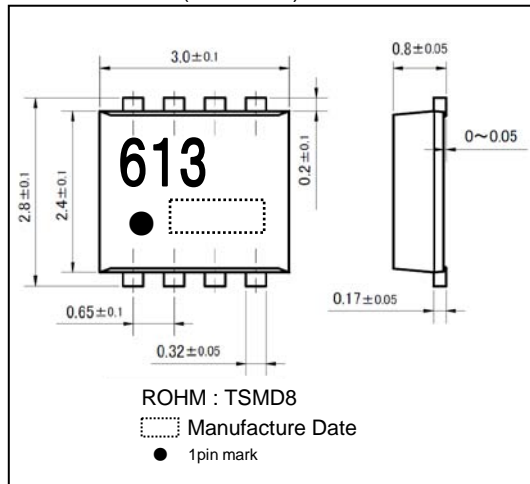
● **Features**

- 1) Small power mold type. (TSMD8)
- 2) Low V_F
- 3) High reliability

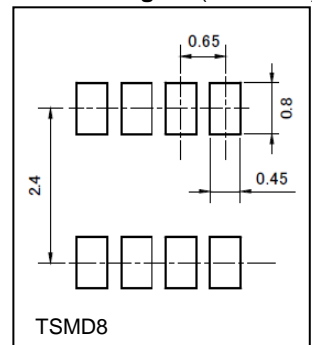
● **Structure**

Silicon epitaxial planar

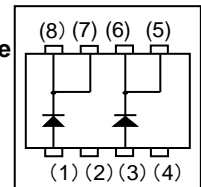
● **Dimensions (Unit : mm)**



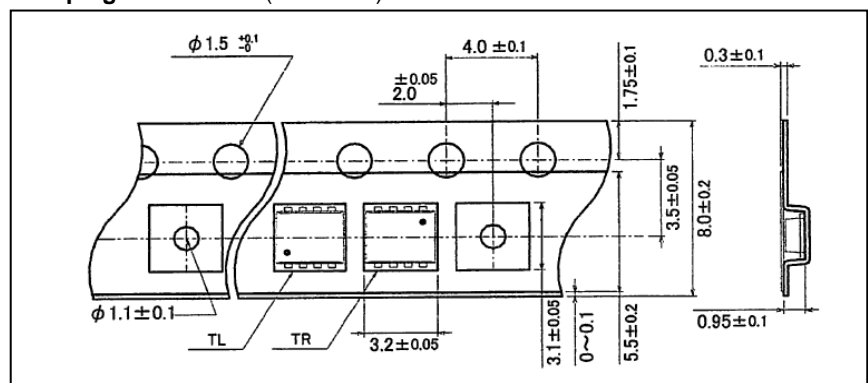
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping dimensions (Unit : mm)**



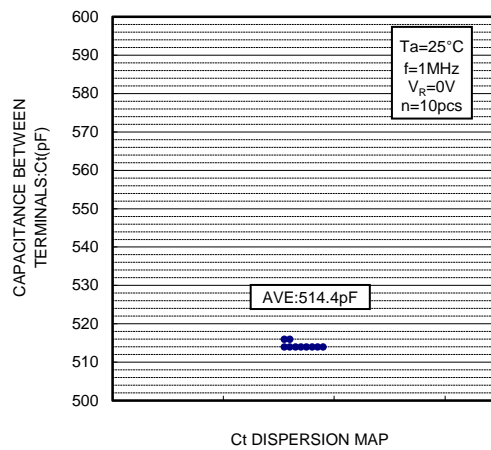
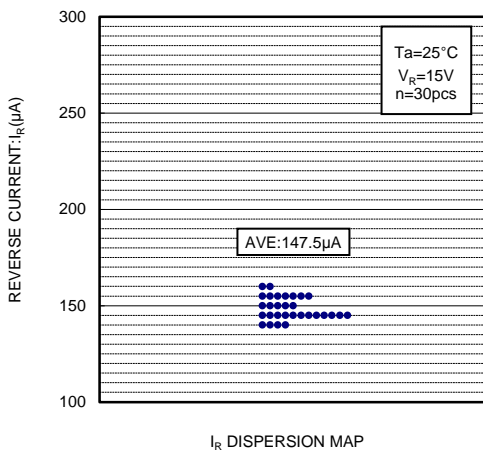
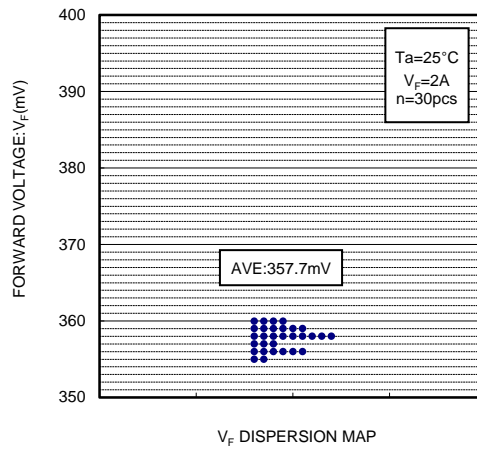
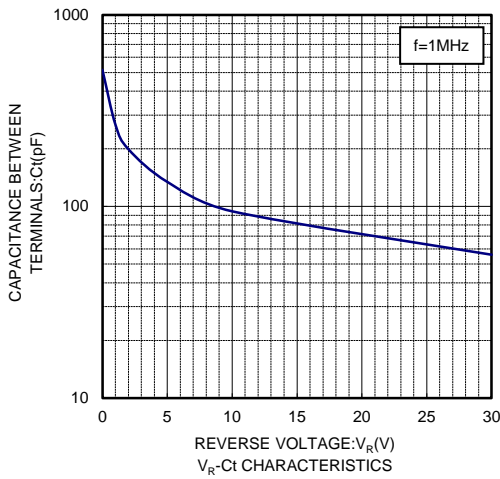
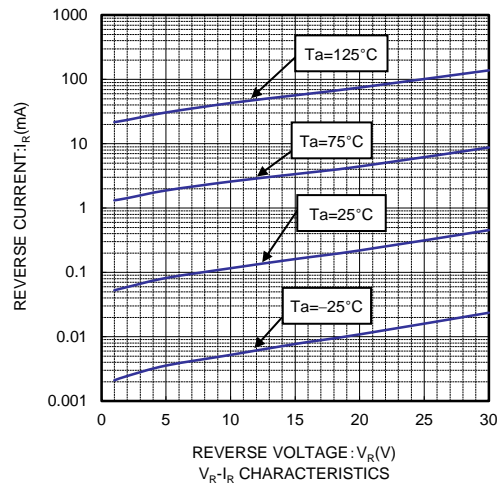
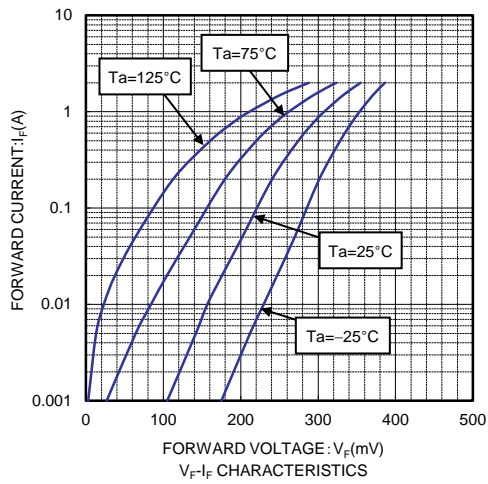
● **Absolute maximum ratings (Ta=25°C)**

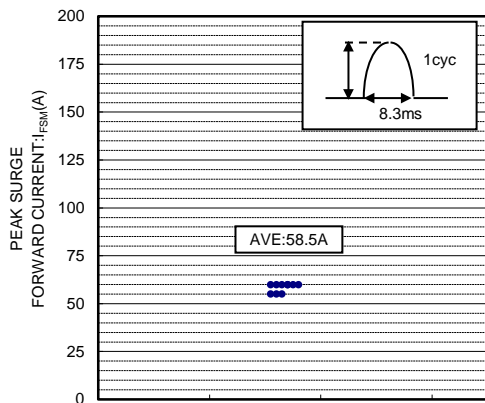
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current (*1)	I_o	2	A
Forward current surge peak (60Hz · 1cyc) (*1)	I_{FSM}	8	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	- 40 to +125	°C

(*1) Mounted on epoxy board. 180° Half sine wave

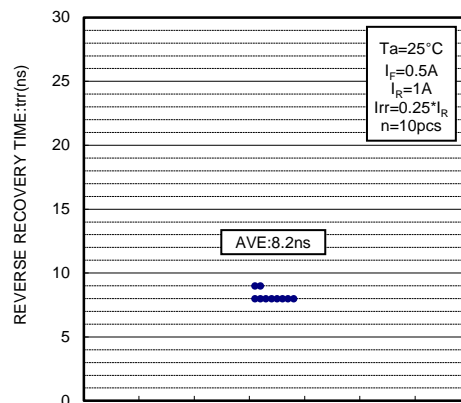
● **Electrical characteristics (Ta=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	0.30	0.35	V	$I_F=1.0A$
	V_{F2}	-	0.35	0.40	V	$I_F=2.0A$
Reverse current	I_R	-	280	900	μA	$V_R=15V$
Capacitance between terminal	C_t	-	80	-	pF	$V_R=20V, f=1MHz$
Reverse recovery time	t_{rr}	-	-	20	ns	$I_F=0.5A, I_R=1A, I_{rr}=0.25 \cdot I_R$

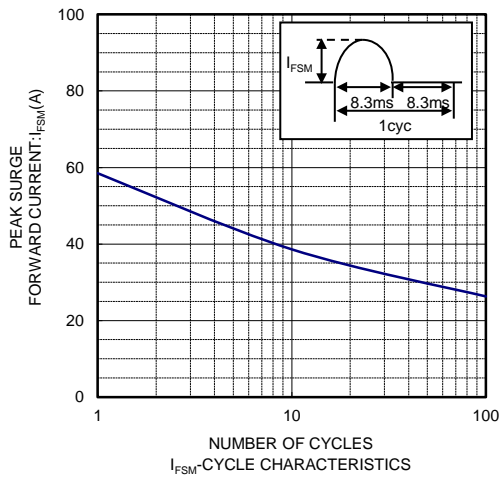




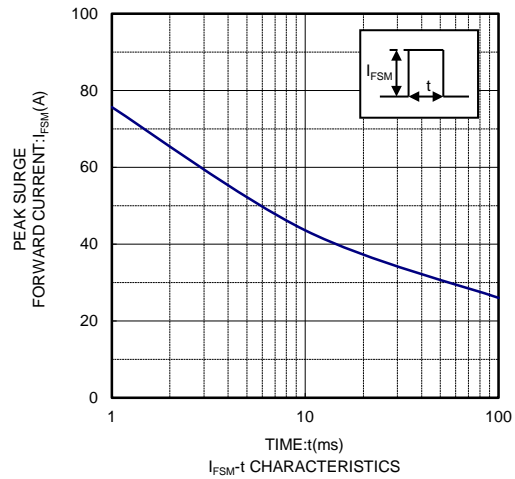
I_{FSM} DISPERSION MAP



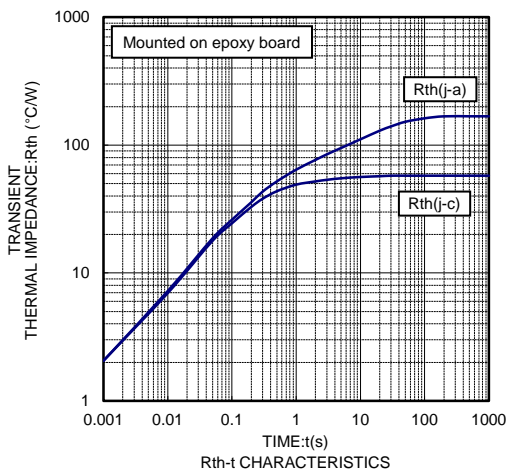
trr DISPERSION MAP



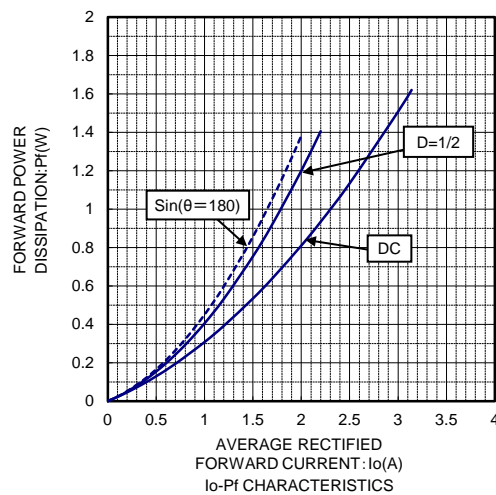
I_{FSM} CYCLE CHARACTERISTICS



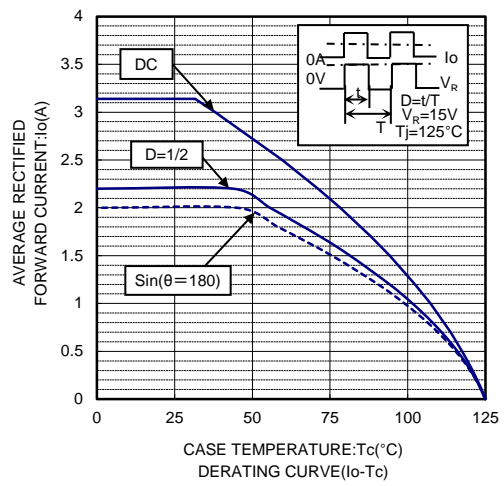
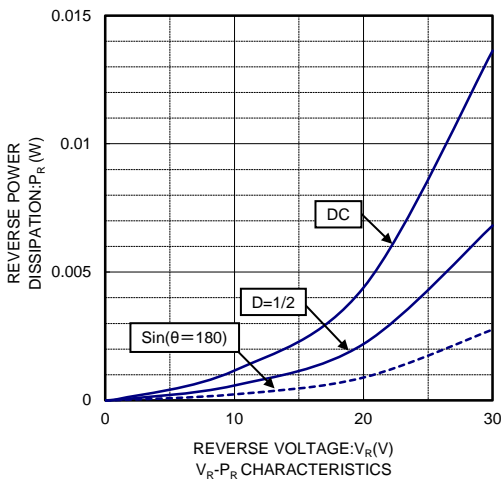
I_{FSM} -t CHARACTERISTICS



R_{th} -t CHARACTERISTICS



I_o -Pf CHARACTERISTICS



Notes

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