



Schottky Barrier Diode

RB480K / RB480KFH

Datasheet

●Application

Low current rectification

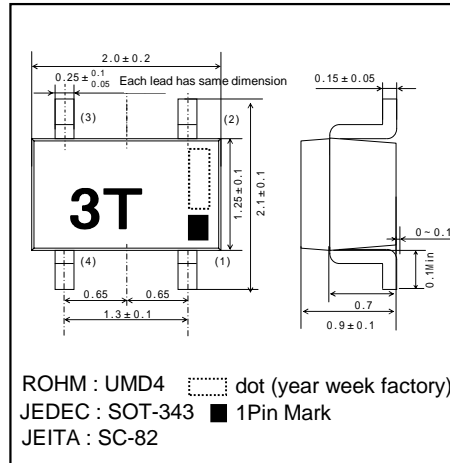
●Features

- 1) Ultra small mold type.
(UMD4)
- 2) Low I_R
- 3) High reliability

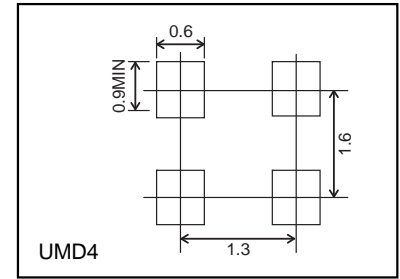
●Construction

Silicon epitaxial planar

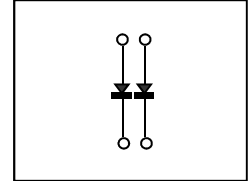
●Dimensions (Unit : mm)



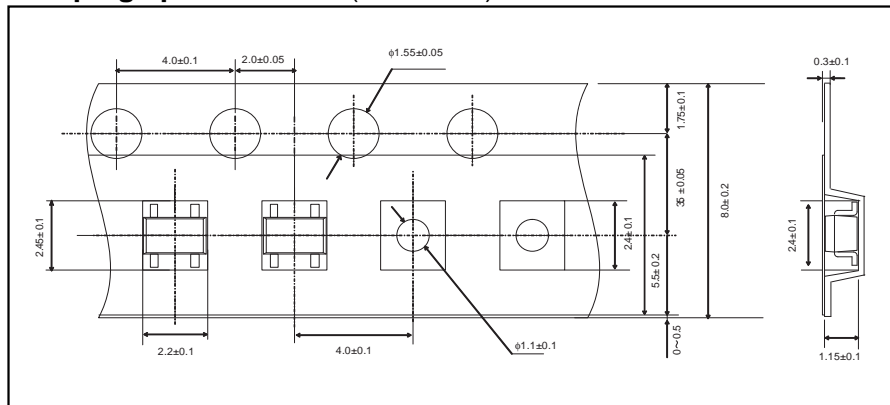
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



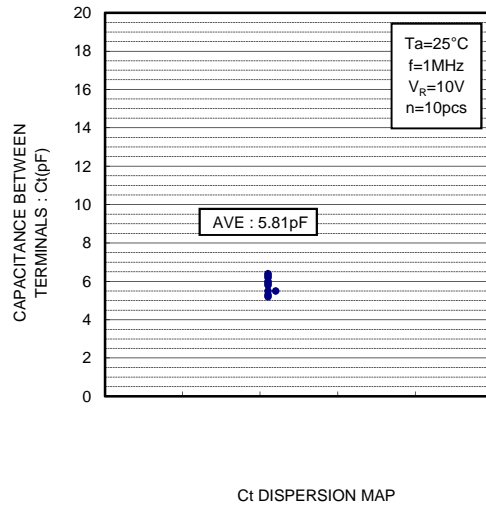
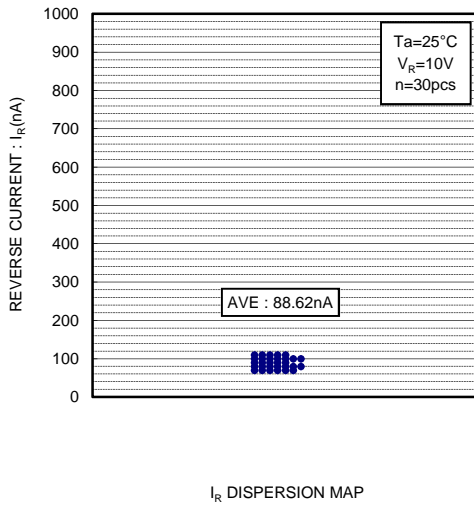
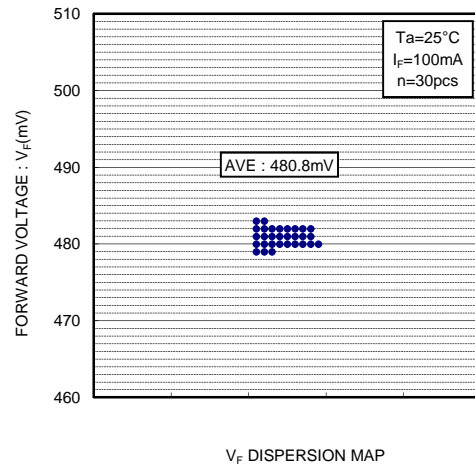
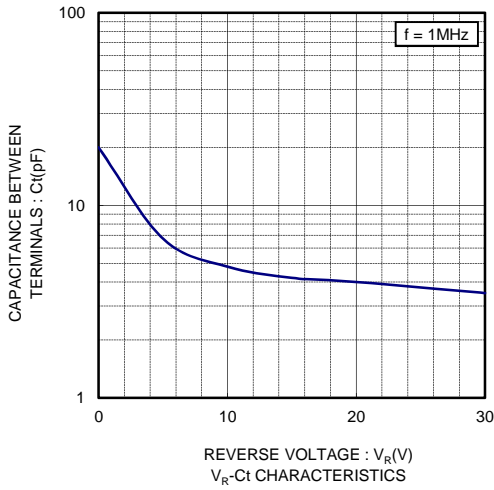
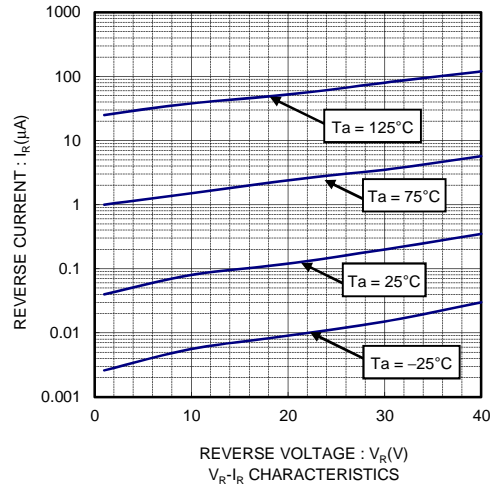
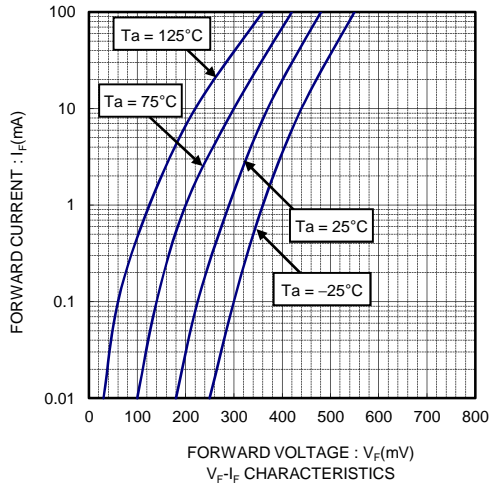
●Absolute maximum ratings (Ta = 25°C)

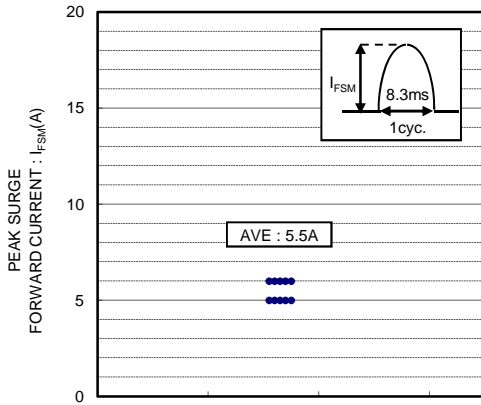
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	45	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current (*1)	I_o	100	mA
Forward current surge peak (60Hz·1cyc) (*1)	I_{FSM}	1	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

(*1) Rating of per diode

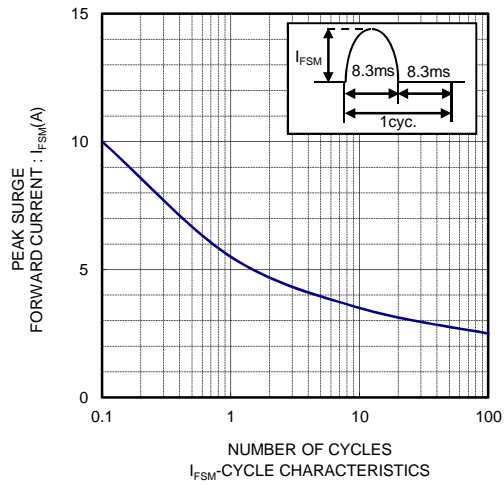
●Electrical characteristics (Ta= 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.45	V	$I_F=10mA$
	V_{F2}	-	-	0.6	V	$I_F=100mA$
Reverse current	I_{R1}	-	-	1	μA	$V_R=10V$
	I_{R2}	-	-	5	μA	$V_R=40V$
Capacitance between terminals	C_{t1}	-	6	-	pF	$V_R=10V, f=1MHz$
	C_{t2}	-	-	25	pF	$V_R=0V$

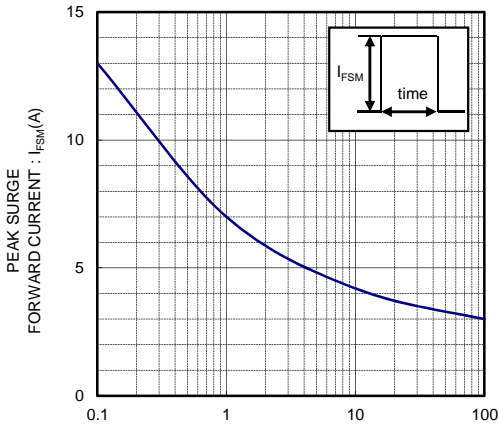




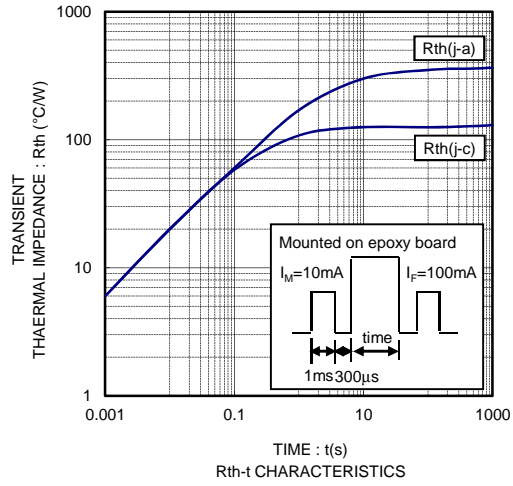
I_{FSM} DISPERSION MAP



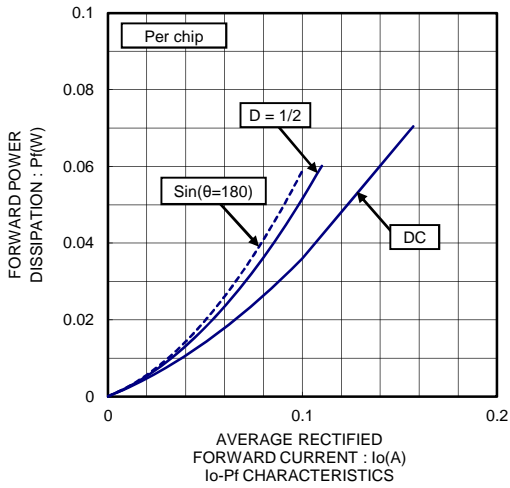
I_{FSM} CYCLE CHARACTERISTICS



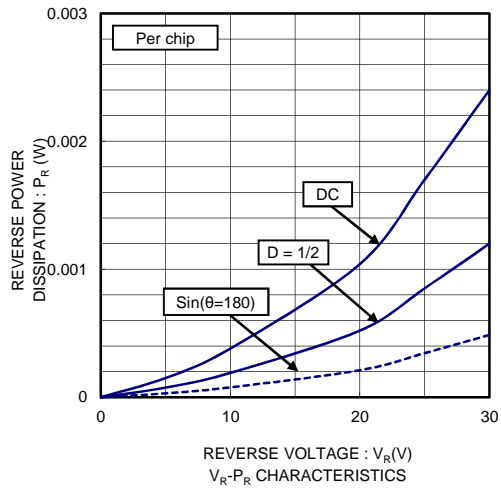
I_{FSM} -t CHARACTERISTICS



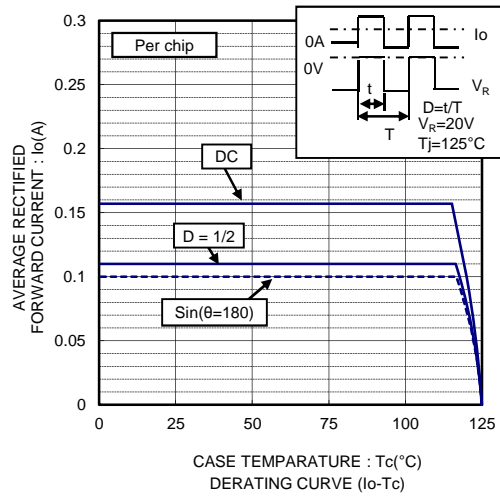
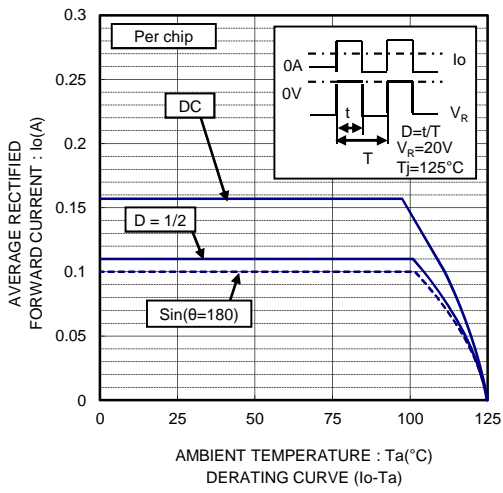
R_{th} -t CHARACTERISTICS



I_o -P_f CHARACTERISTICS



V_R -P_R CHARACTERISTICS



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