

Schottky barrier diode

RB530XN

●Applications

Low current rectification

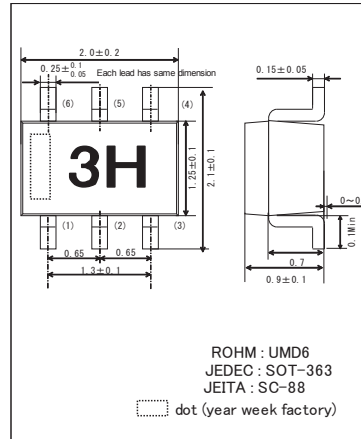
●Features

- 1) Small mold type. (UMD6)
- 2) Low I_R
- 3) High reliability.

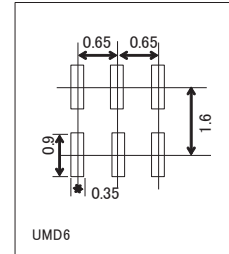
●Construction

Silicon epitaxial planar

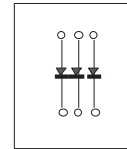
●External dimensions (Unit : mm)



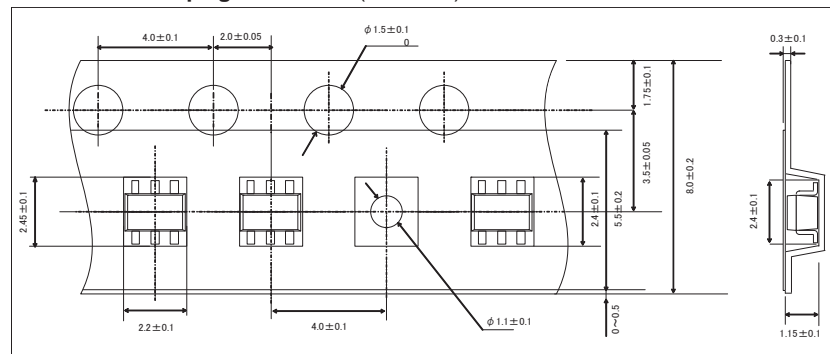
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage	V_R	30	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

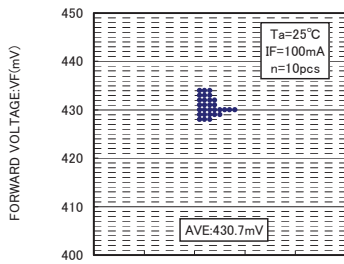
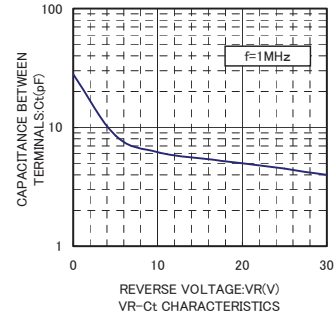
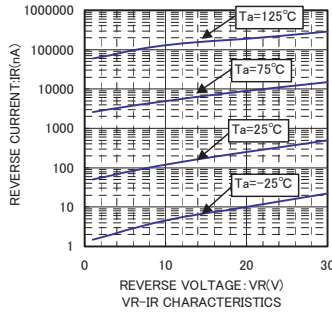
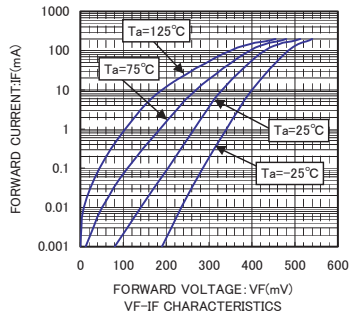
(*1) Rating of per diode

●Electrical characteristics (Ta=25°C, per chip)

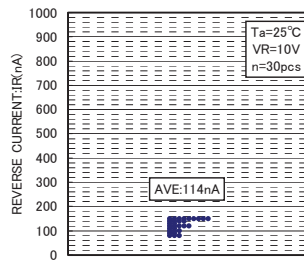
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.40	V	$I_F=10mA$
	V_{F2}	-	-	0.53	V	$I_F=100mA$
Reverse current	I_R	-	-	1	μA	$V_R=10V$

Diodes

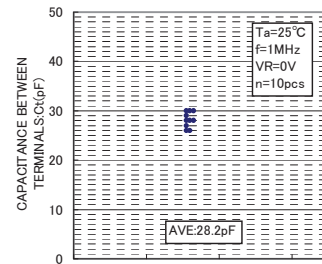
● Electrical characteristic curves (Ta=25°C)



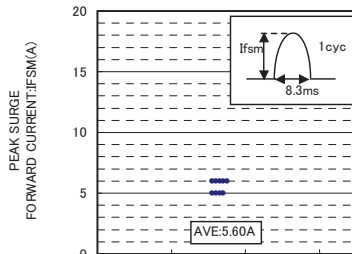
VF DISPERSION MAP



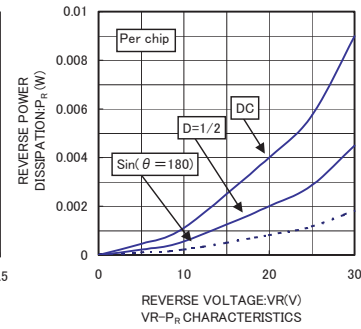
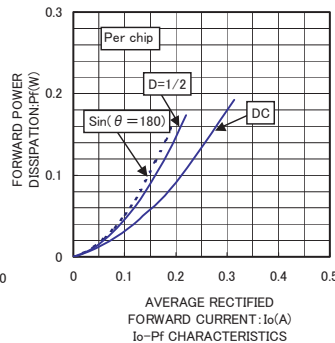
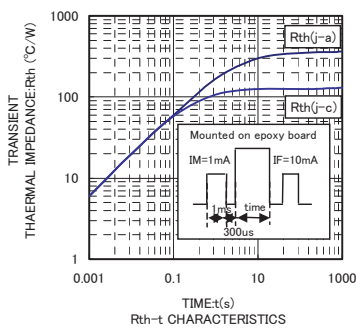
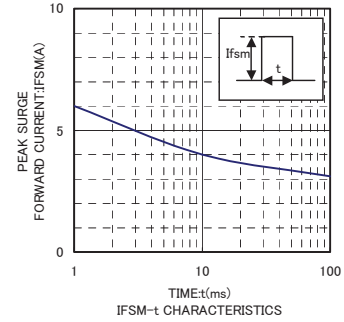
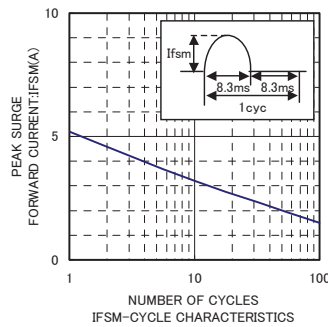
IR DISPERSION MAP



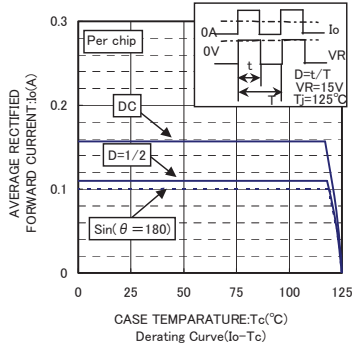
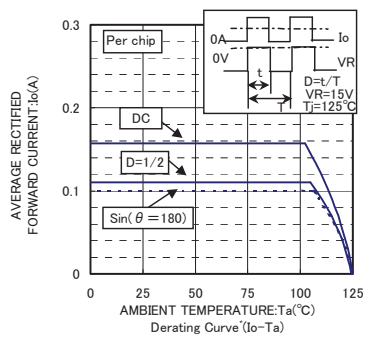
Ct DISPERSION MAP



IFSM DISERSION MAP



Diodes



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