Schottky barrier diode

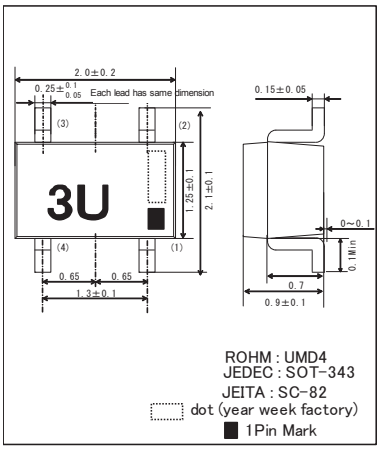
RB481K

●**Applications**
Low current rectification

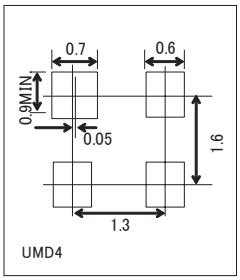
●**Features**
1) Ultra small mold type. (UMD4)
2) Low V_F
3) High reliability.

●**Construction**
Silicon epitaxial planar

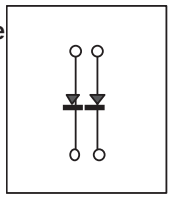
●**External dimensions** (Unit : mm)



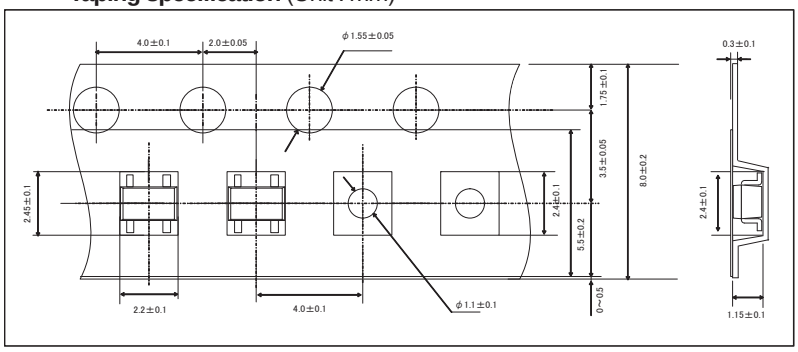
●**Land size figure** (Unit : mm)



●**Structure**



●**Taping specification** (Unit : mm)



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

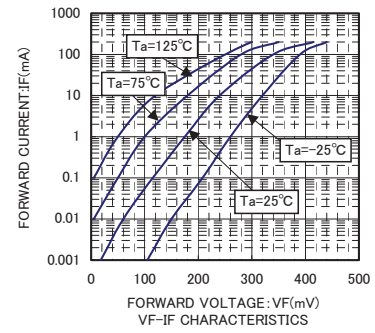
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current (*1)	Io	200	mA
Forward current surge peak (60Hz・1cyc) (*1)	I_{FSM}	1	A
Junction temperature	Tj	125	℃
Storage temperature	Tstg	-40 to +125	℃

(*1) Rating of per diode

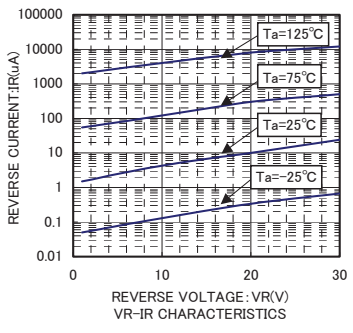
●**Electrical characteristics** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F1	-	-	0.28	V	I_F=1mA
	V_F2	-	-	0.33	V	I_F=10mA
	V_F3	-	-	0.43	V	I_F=100mA
	V_F4	-	-	0.50	V	I_F=200mA
Reverse current	I_R	-	-	30	μA	V_R=10V

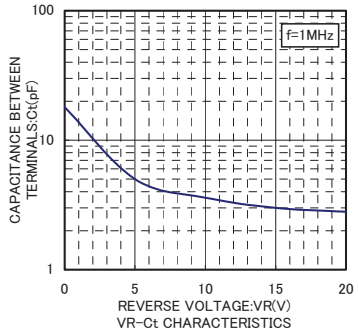
●Electrical characteristic curves (Ta=25°C)



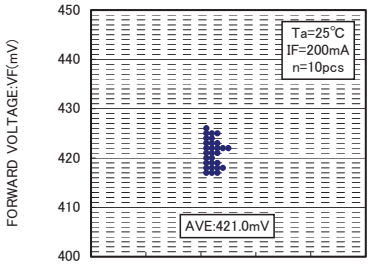
VF-IF CHARACTERISTICS



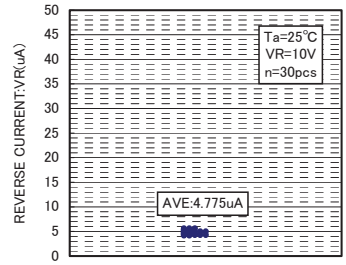
VR-IR CHARACTERISTICS



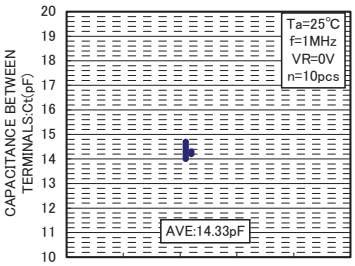
VR-Ct CHARACTERISTICS



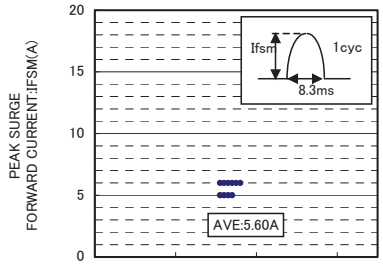
VF DISPERSION MAP



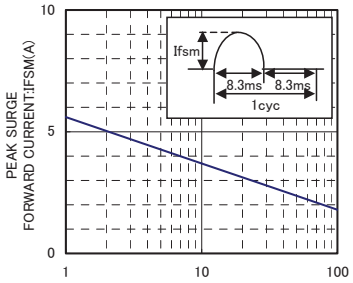
IR DISPERSION MAP



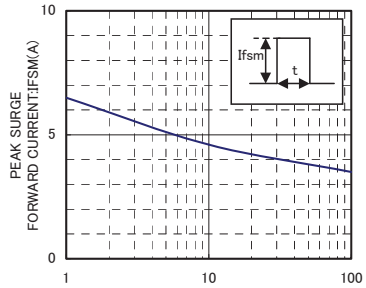
Ct DISPERSION MAP



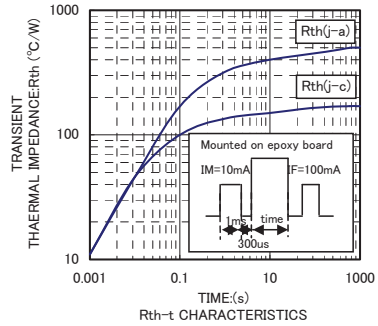
IFSM DISPERSION MAP



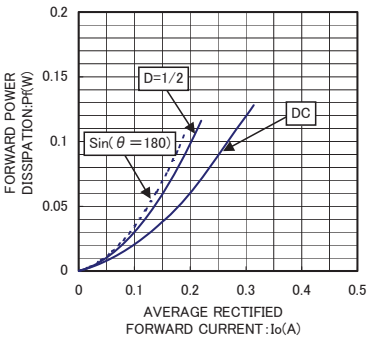
IFSM-CYCLE CHARACTERISTICS



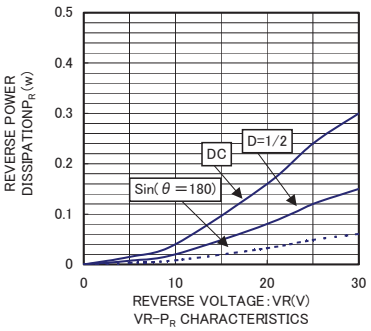
IFSM-t CHARACTERISTICS



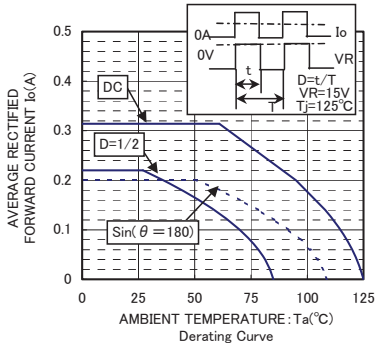
Rth-t CHARACTERISTICS



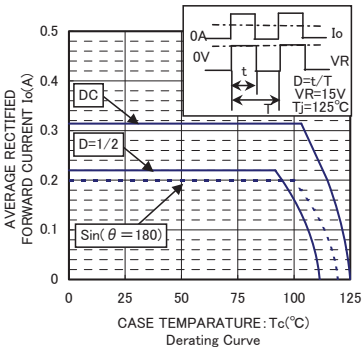
Io-Pf CHARACTERISTICS



VR-P_R CHARACTERISTICS



Derating Curve



Derating Curve

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