Switching Diode

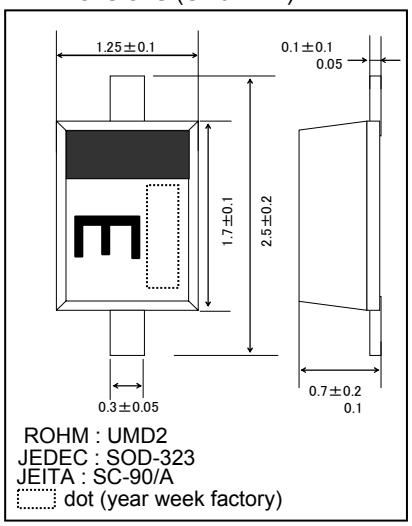
1SS380

●Applications
High speed switching

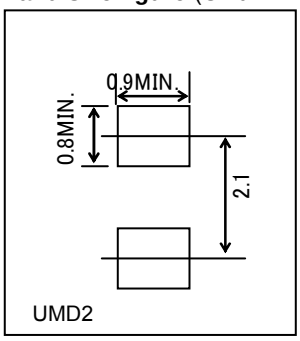
●Features
1)Ultra small mold type. (UMD2)
2)High reliability

●Construction
Silicon epitaxial planar

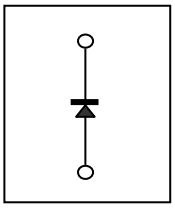
●Dimensions (Unit : mm)



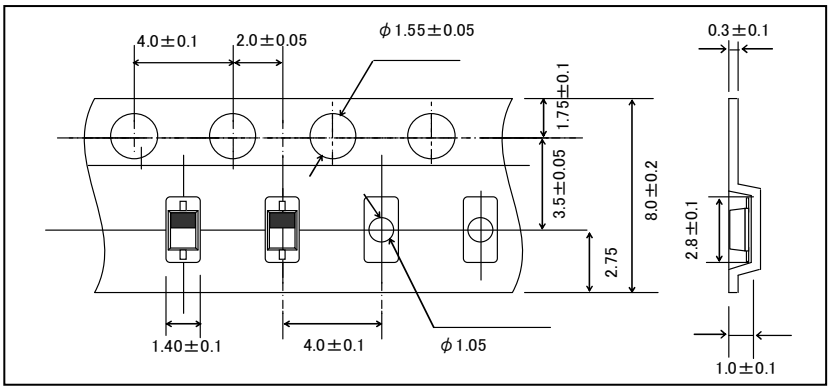
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



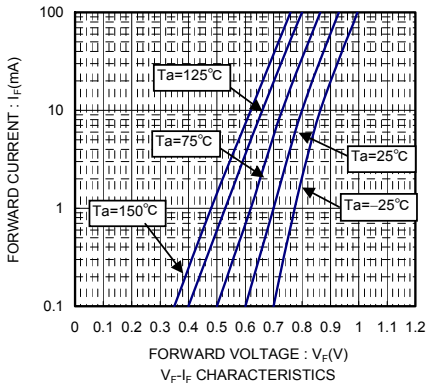
●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	35	V
Forward current	I_{FM}	225	mA
Average rectified forward current	Io	100	mA
Surge current (t=1s)	I_{surge}	400	mA
Junction temperature	Tj	150	°C
Storage temperature	Tstg	−55 to +150	°C

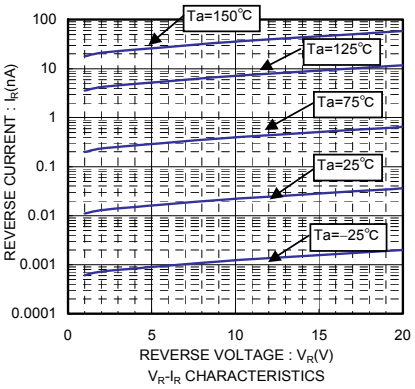
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.2	V	I_F=100mA
Reverse current	I_R	-	-	0.01	μA	V_R=20V
Capacitance between terminals	Ct	-	-	5.0	pF	V_R=0.5V , f=1MHz

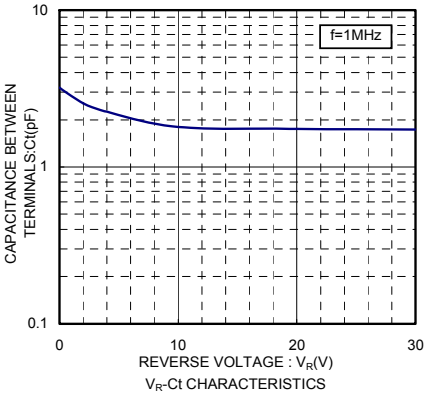
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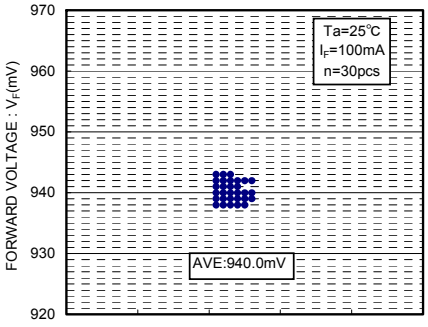
V_F-I_F CHARACTERISTICS



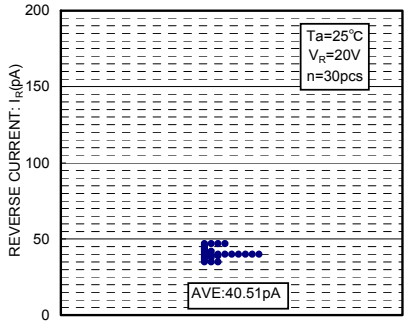
V_R-I_R CHARACTERISTICS



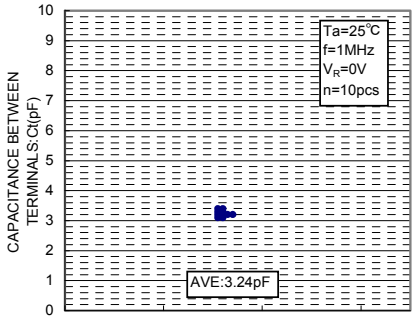
V_R-Ct CHARACTERISTICS



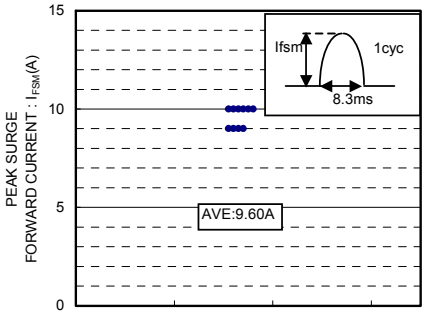
V_F DISPERSION MAP



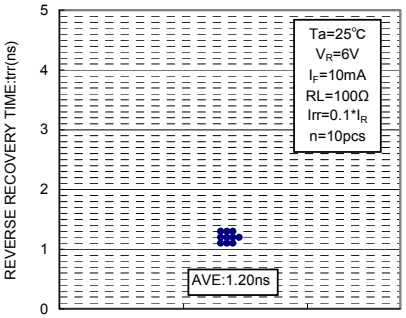
I_R DISPERSION MAP



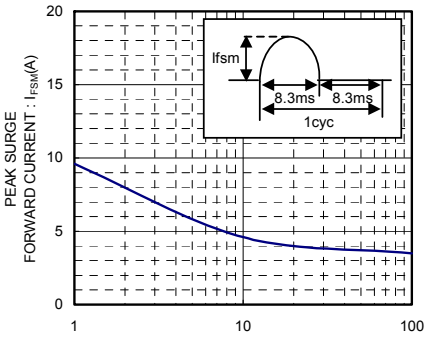
Ct DISPERSION MAP



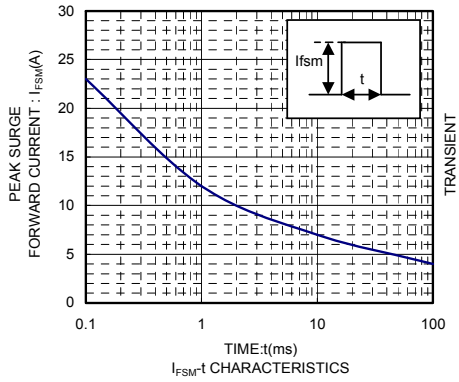
I_{FSM} DISPERSION MAP



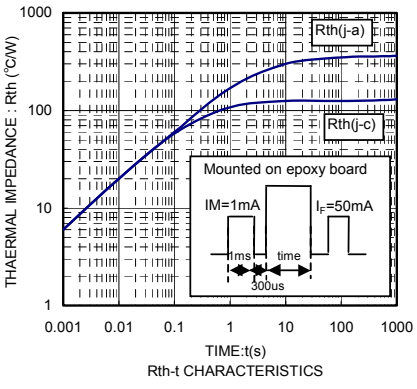
trr DISPERSION MAP



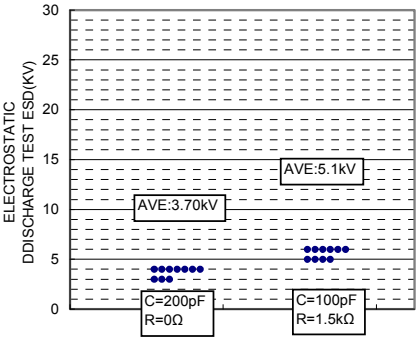
I_{FSM}-CYCLE CHARACTERISTICS



I_{FSM}-t CHARACTERISTICS



Rth-t CHARACTERISTICS



ESD DISPERSION MAP

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