Switching Diode

1SS400SM

●Applications

High frequency switching

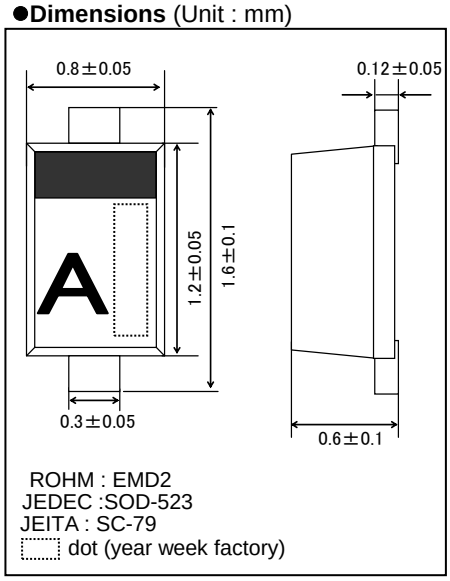
●Features

1)Ultra small mold type. (EMD2)
2)High reliability

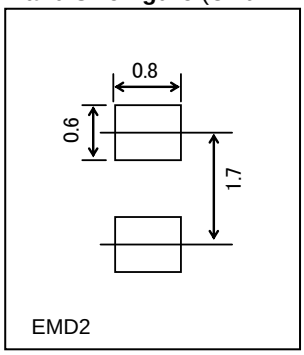
●Construction

Silicon epitaxial

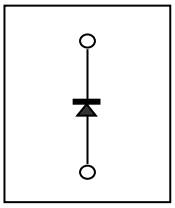
●Dimensions (Unit : mm)



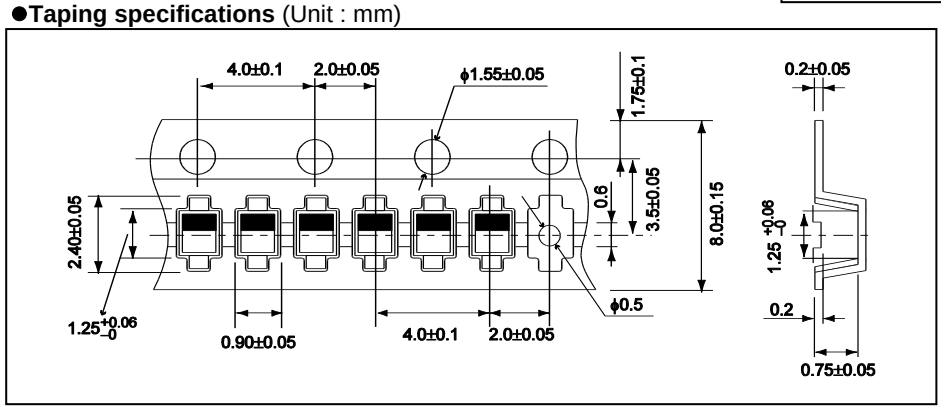
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



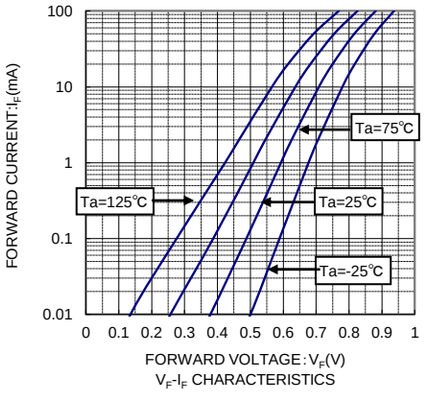
●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	90	V
Reverse voltage (DC)	V_R	80	V
Forward voltage(repetitive peak)	I_{FM}	225	mA
Average rectified forward current	Io	100	mA
Surge current(t=1s)	I_{surge}	500	mA
Junction temperature	Tj	150	°C
Storage temperature	Tstg	−55 to +150	°C

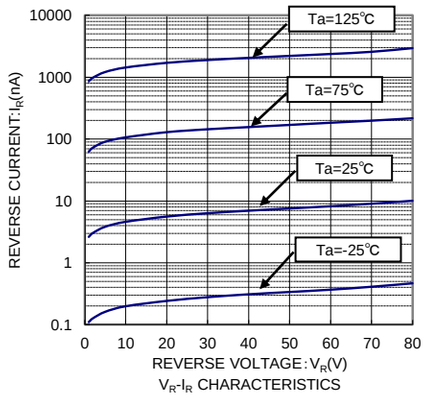
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.2	V	I_F=100mA
Reverse current	I_R	-	-	0.1	μA	V_R=80V
Capacitance between terminals	Ct	-	-	3	pF	V_R=0.5V , f=1MHz
Reverse recovery time	trr	-	-	4	ns	V_R=6V , I_F=10mA , R_L=100Ω

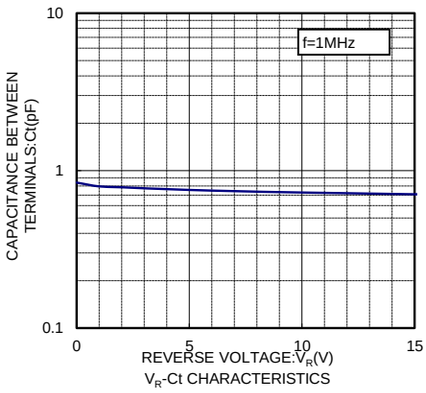
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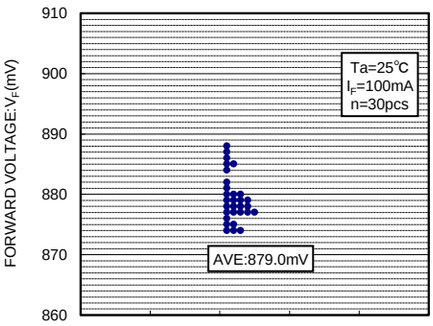
V_F-I_F CHARACTERISTICS



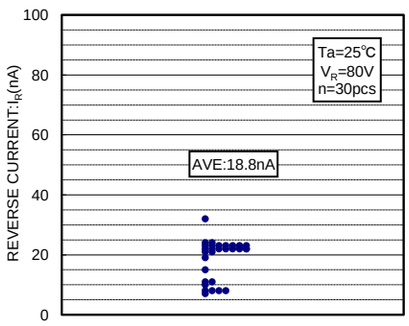
V_R-I_R CHARACTERISTICS



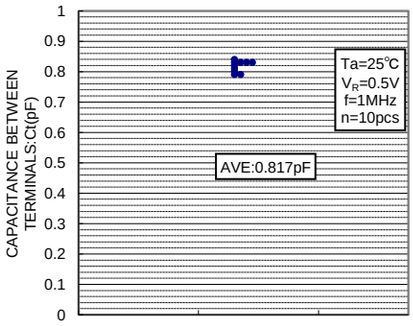
V_R-Ct CHARACTERISTICS



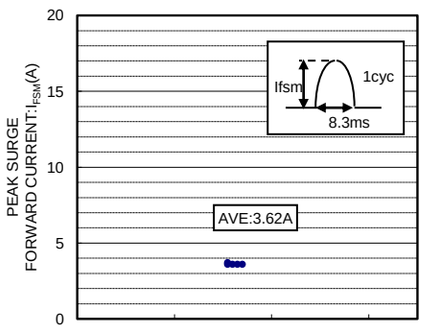
V_F DISPERSION MAP



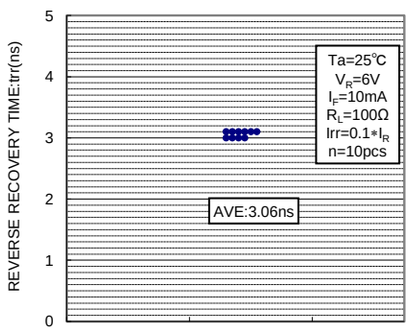
I_R DISPERSION MAP



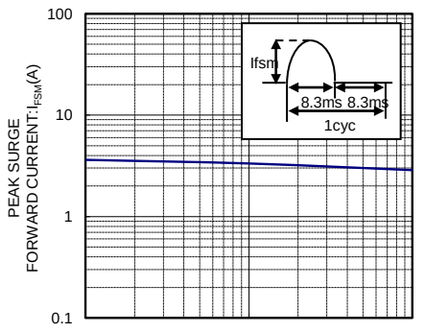
Ct DISPERSION MAP



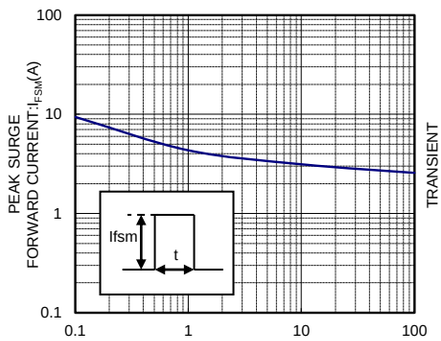
I_{FSM} DISPERSION MAP



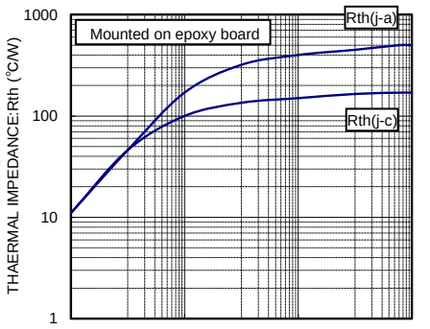
trr DISPERSION MAP



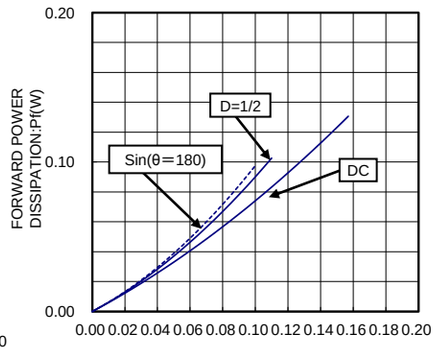
I_{FSM}-CYCLE CHARACTERISTICS



I_{FSM}-t CHARACTERISTICS

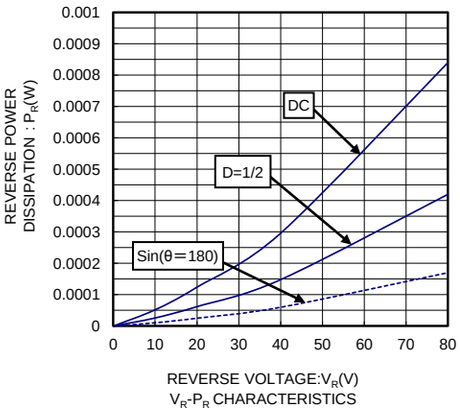


Rth-t CHARACTERISTICS

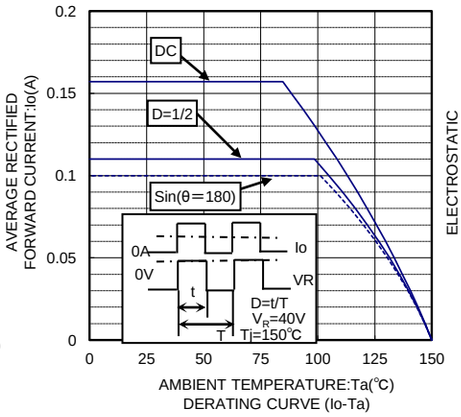


Io-Pf CHARACTERISTICS

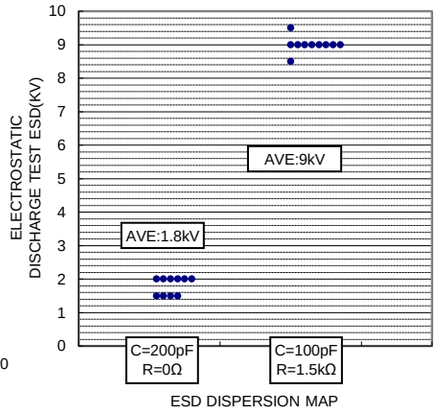
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V_R-P_R CHARACTERISTICS



DERATING CURVE (Io-Ta)



ESD DISPERSION MAP

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