

Switching Diode

1SS355

●Applications

High speed switching

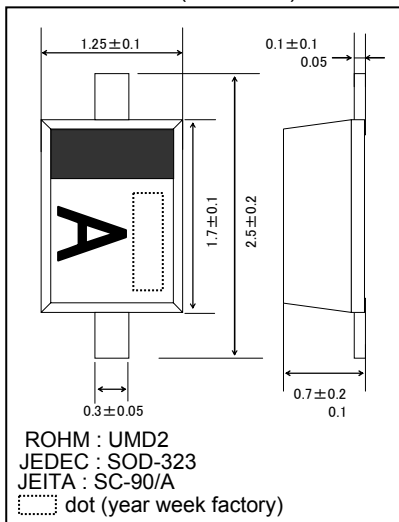
●Features

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

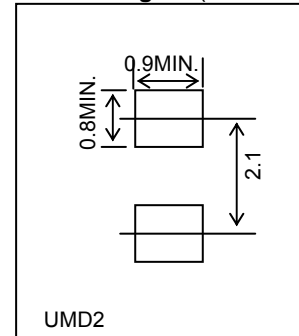
●Construction

Silicon epitaxial planar

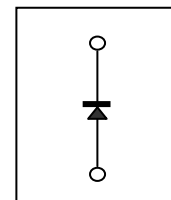
●Dimensions (Unit : mm)



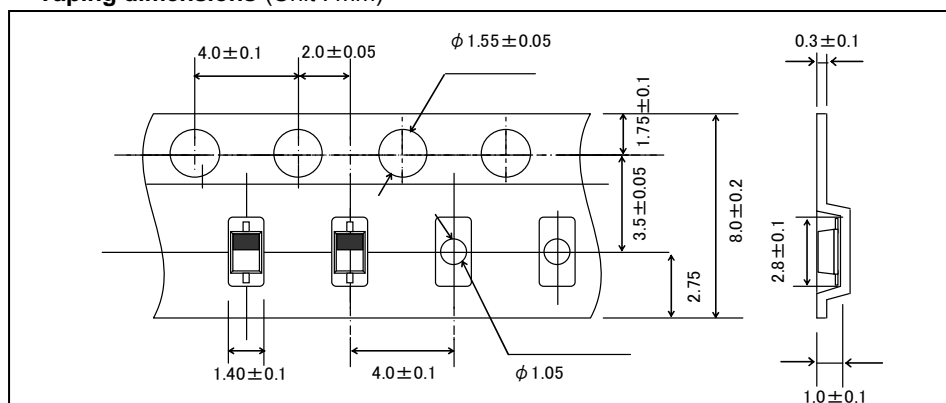
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

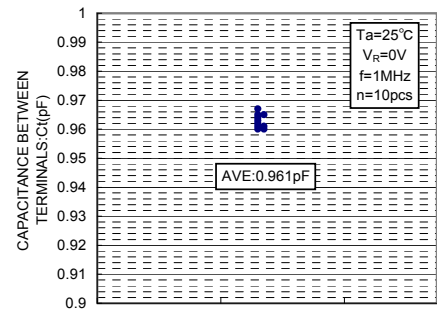
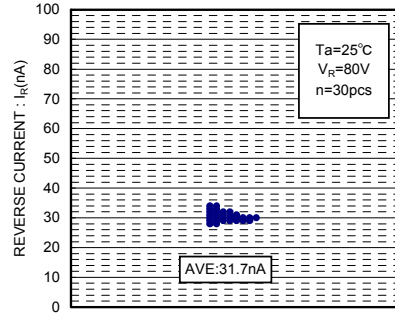
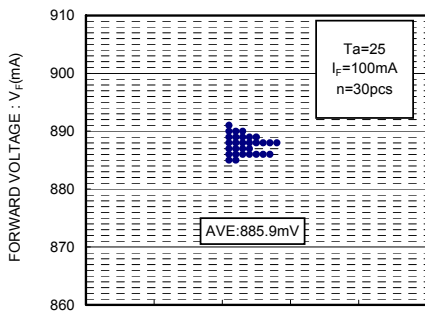
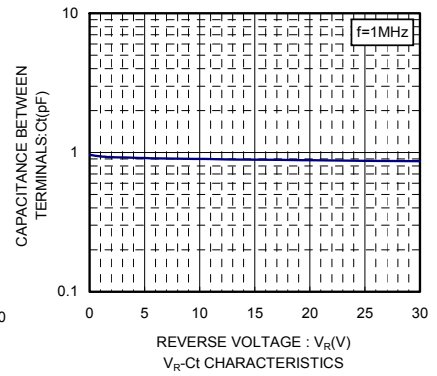
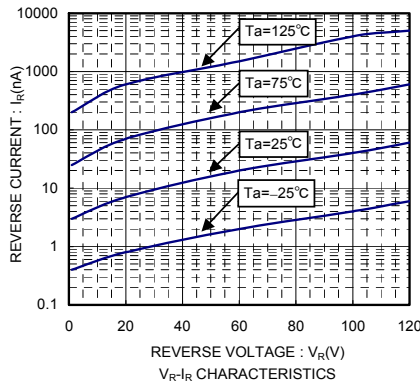
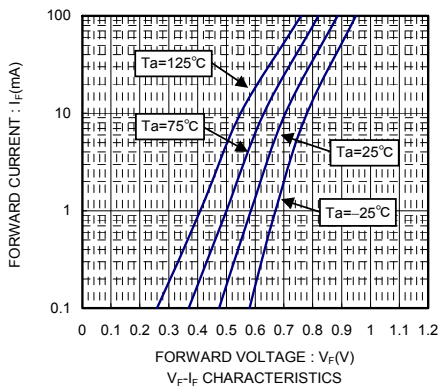


●Absolute maximum ratings (Ta=25°C)

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

●Electrical characteristics (Ta=25°C)

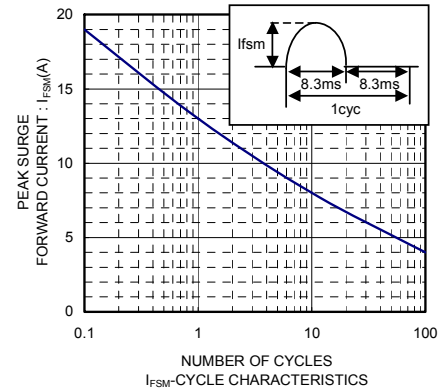
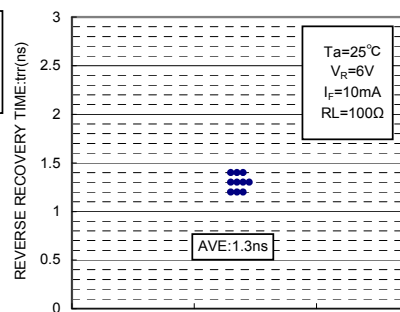
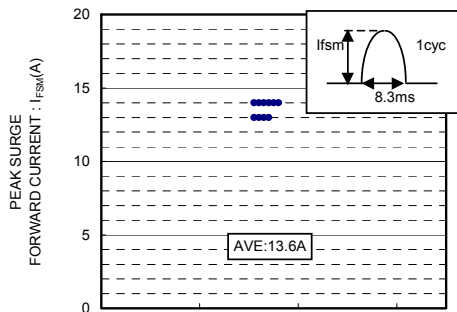
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.2	V	$I_F=100mA$
Reverse current	I_R	-	-	0.1	μA	$V_R=80V$
Capacitance between terminals	C_t	-	-	3	pF	$V_R=0.5V, f=1MHz$
Reverse recovery time	t_{rr}	-	-	4	ns	$V_R=6V, I_F=10mA, R_L=100\Omega$



V_F DISPERSION MAP

I_R DISPERSION MAP

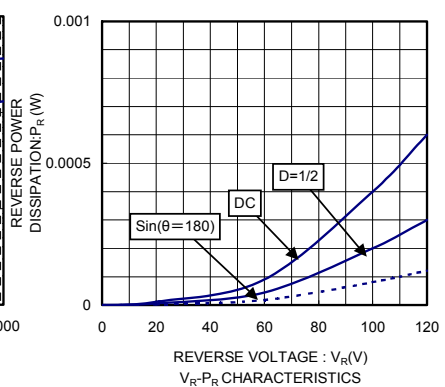
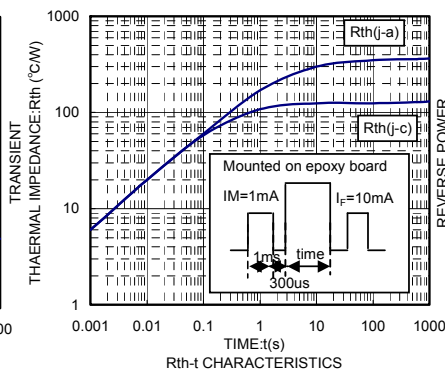
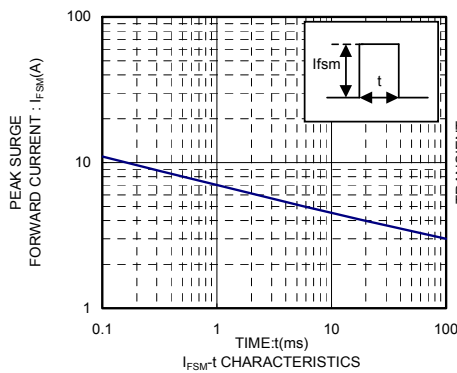
C_t DISPERSION MAP



I_{FSM} DISERSION MAP

t_{tr} DISPERSION MAP

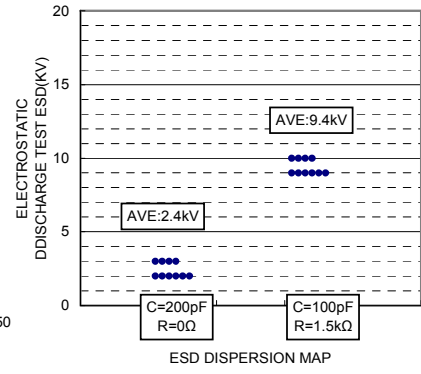
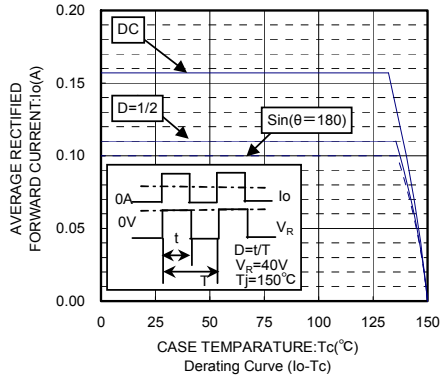
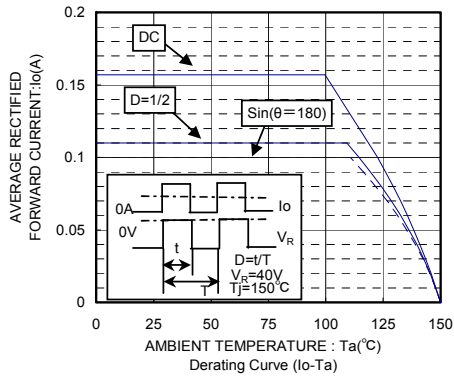
I_{FSM}-CYCLE CHARACTERISTICS



I_{FSM}-t CHARACTERISTICS

R_{th}-t CHARACTERISTICS

V_R-P_R CHARACTERISTICS



Notes

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