1SS400SM Datasheet

### Application

High frequency switching

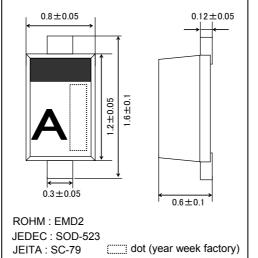
#### Features

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

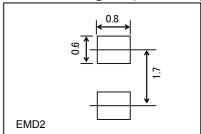
# Construction

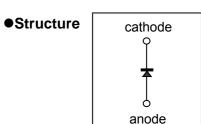
Silicon epitaxial

# ● Dimensions (Unit: mm)

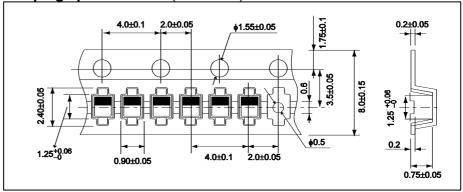


●Land size figure (Unit : mm)





● Taping specifications (Unit: mm)

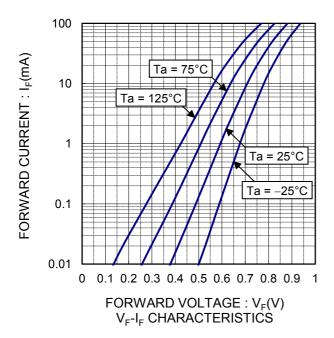


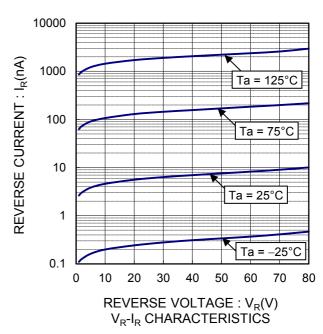
# ● Absolute maximum ratings (Ta= 25°C)

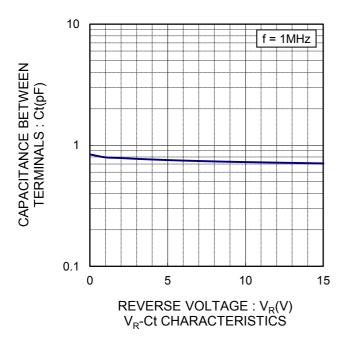
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	90	V
Reverse voltage (DC)	$V_R$	80	V
Forward voltage(repetitive peak)	I <sub>FM</sub>	225	mA
Average rectified forward current	lo	100	mA
Surge current(t=1s)	I <sub>surge</sub>	500	mA
Junction temperature	Tj	150	°C
Storage temperature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

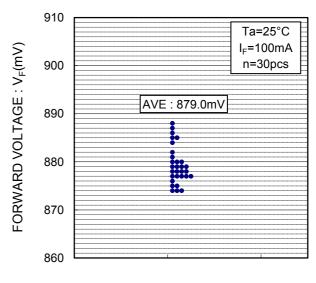
# ●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	$V_{F}$	-	-	1.2	V	I <sub>F</sub> =100mA
Reverse current	I <sub>R</sub>	-	-	0.1	μΑ	V <sub>R</sub> =80V
Capacitance between terminals	Ct	-	-	3	pF	V <sub>R</sub> =0.5V, f=1MHz
Reverse recovery time	trr	-	-	4	ns	$V_R$ =6 $V$ , $I_F$ =10 $m$ A, $R_L$ =100 $\Omega$

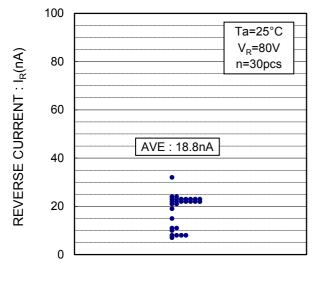


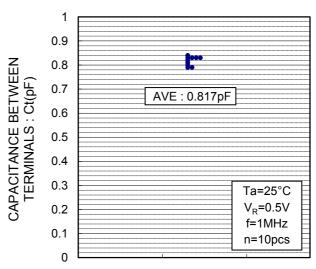






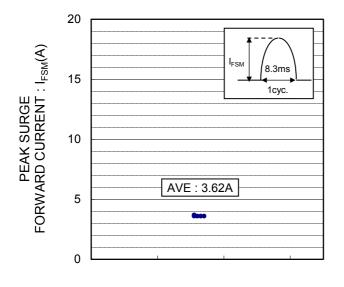
V<sub>F</sub> DISPERSION MAP



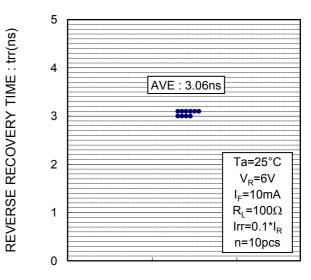


I<sub>R</sub> DISPERSION MAP

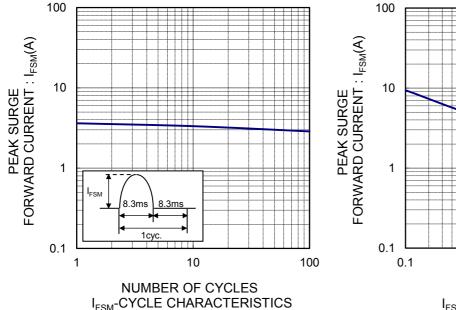
Ct DISPERSION MAP

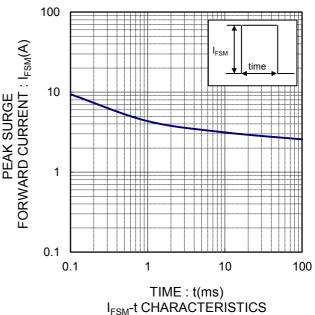


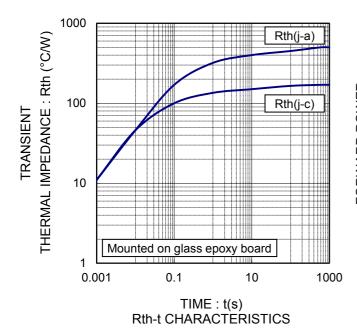
I<sub>FSM</sub> DISPERSION MAP

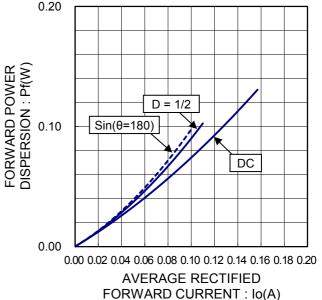


trr DISPERSION MAP

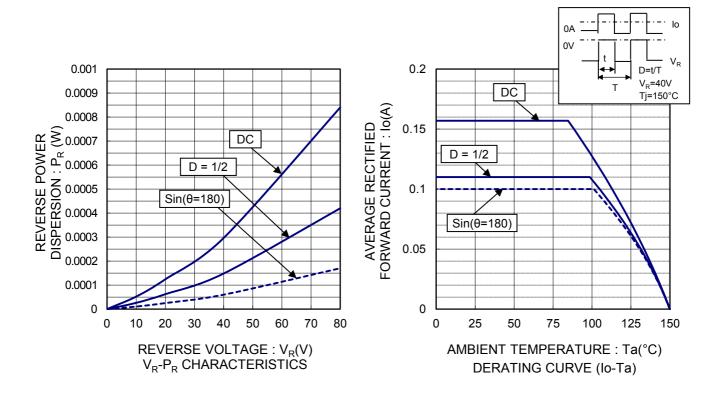


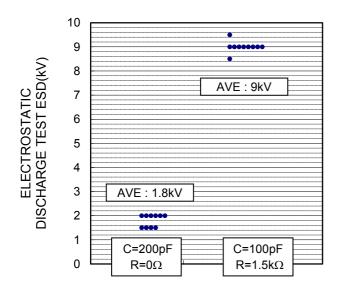






Io-Pf CHARACTERISTICS





**ESD DISPERSION MAP** 

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