# Switching diode

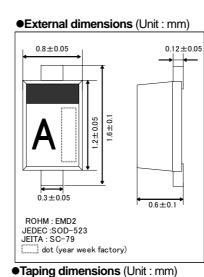
## 1SS400

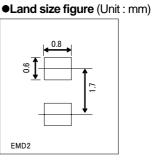
•Applications High speed switching

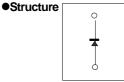
Features1) Ultra small mold type. (EMD2)2) High reliability.

#### Construction

Silicon epitaxial planar







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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V <sub>RM</sub>	90	V
Reverse voltage (DC)	V <sub>R</sub>	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	125	°C
Storage temperature	Tstg	-55 to +125	°C

#### •Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	-	1.2	V	I <sub>F</sub> =100mA
Reverse current	I <sub>R</sub>	-	-	0.1	μA	V <sub>R</sub> =80V
Capacitance between terminal	Ct	-	-	3	pF	V <sub>R</sub> =0.5V , f=1MHz
Reverse recovery time	trr	-	-	4	ns	$V_R=6V$ , IF=10mA, RL=100 $\Omega$



f=1MHz

15

Ta=25°C

VR=0.5V

f=1MHz

n=10pcs

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REVERSE VOLTAGE:VR(V)

VR-Ct CHARACTERISTICS

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AVE:0.698pF

Ct DISPERSION MAP

10 NUMBER OF CYCLES

IFSM-CYCLE CHARACTERISTICS

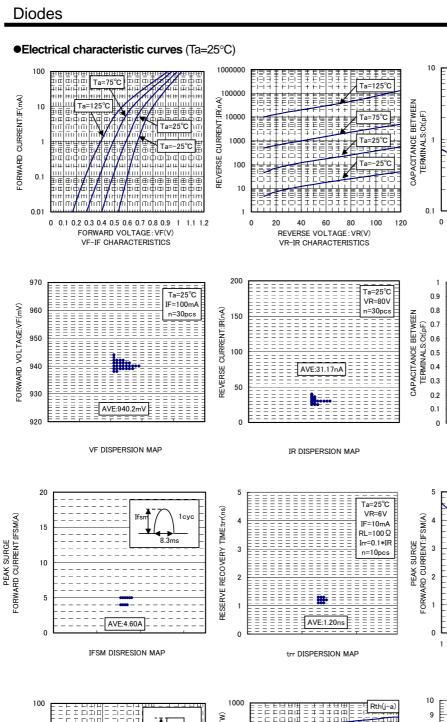
8.3ms 8.3ms

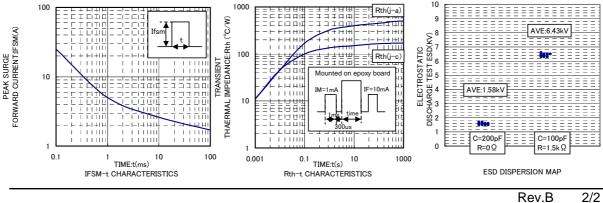
ä

100

1cyc

Ξ





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