

# Band switching diode

## 1SS390

### ●Application

High frequency switching

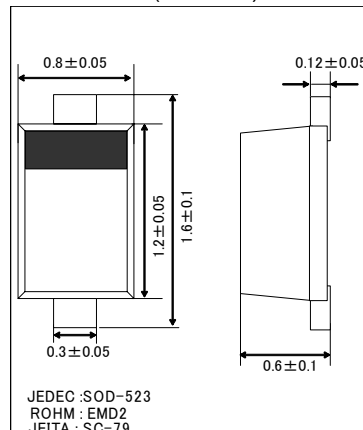
### ●Features

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

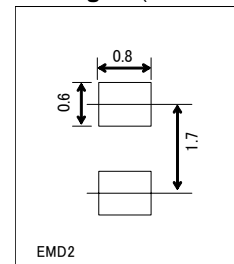
### ●Construction

Silicon epitaxial planer

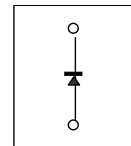
### ●Dimensions (Unit : mm)



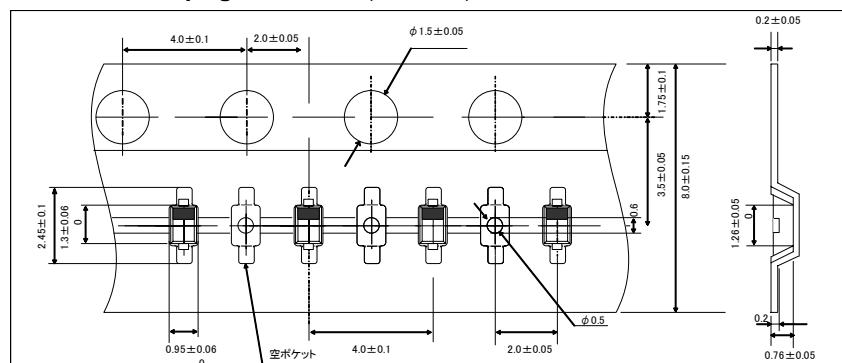
### ●Lead size figure (Unit : mm)



### ●Structure



### ●Taping dimensions (Unit : mm)



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

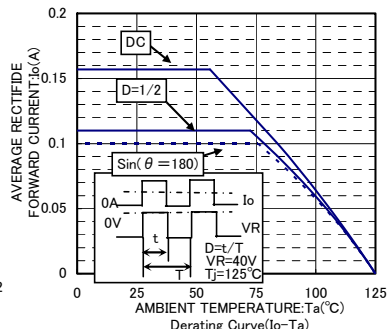
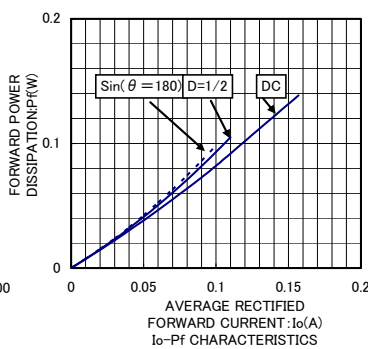
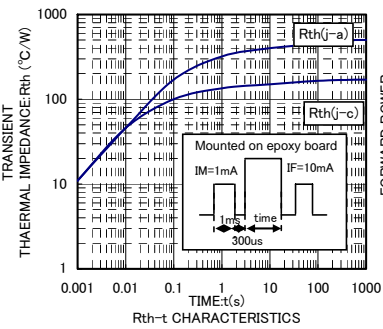
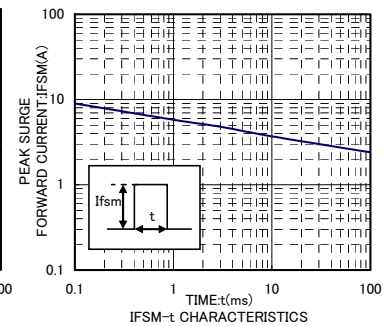
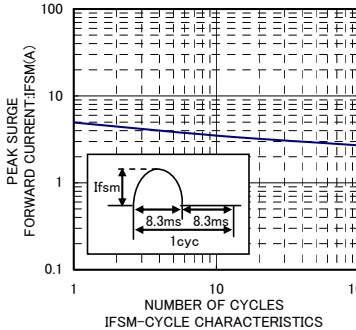
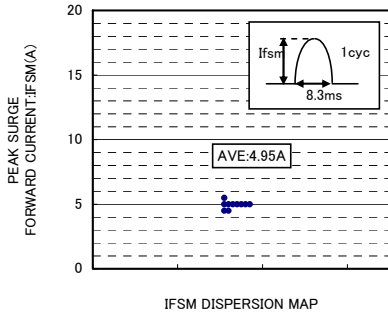
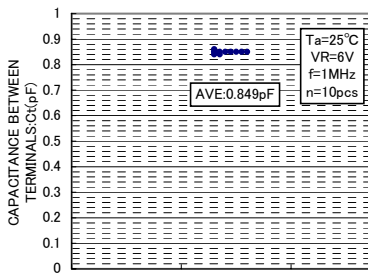
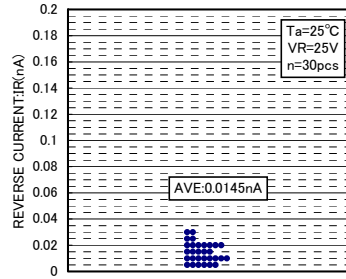
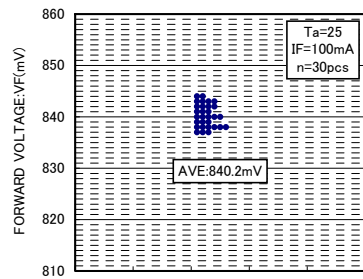
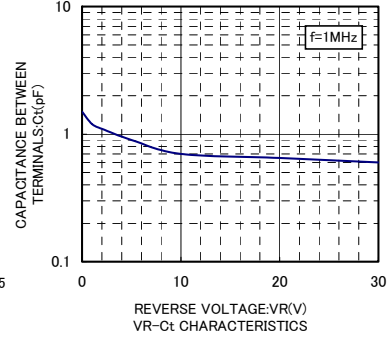
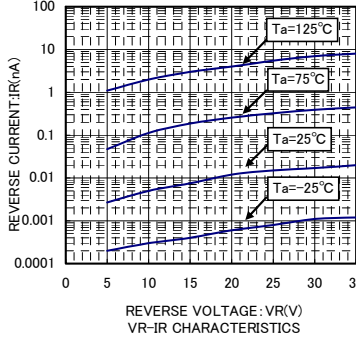
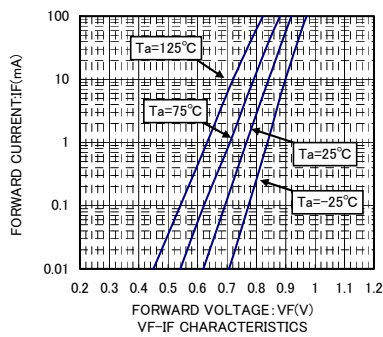
Parameter	Symbol	Limits	Unit
Forward current	$I_F$	100	mA
Forward voltage	$V_R$	35	V
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-55 to +125	°C

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

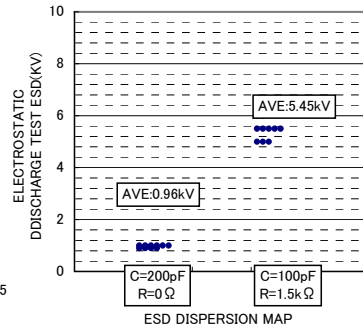
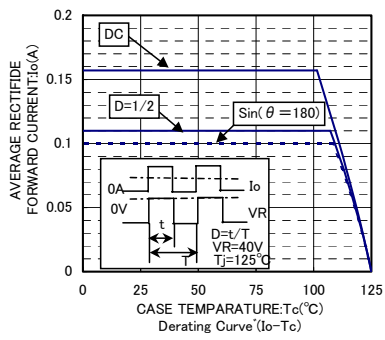
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	1.0	V	$I_F=10\text{mA}$
Reverse current	$I_R$	-	-	10	nA	$V_R=25\text{V}$
Capacitance between terminals	$C_t$	-	-	1.2	pF	$V_R=6\text{V}$ , $f=1\text{MHz}$
Forward operating resistance	$r_f$	-	-	0.9	$\Omega$	$I_F=2\text{mA}$ , $f=100\text{MHz}$ , $R_L=100\Omega$

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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