

●Application

High frequency switching

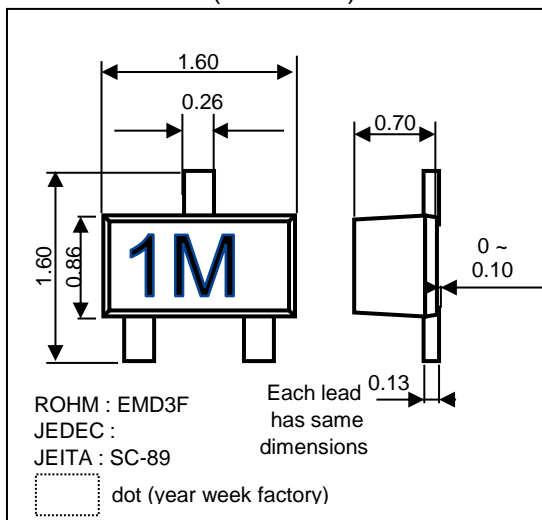
●Features

- 1) Ultra small mold type (EMD3F)
- 2) High reliability

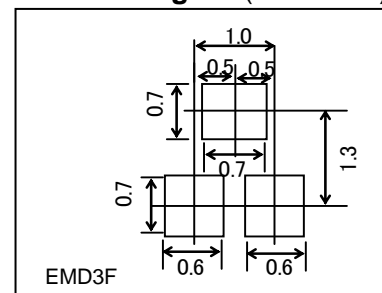
●Construction

Silicon epitaxial planar

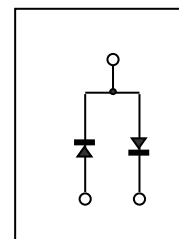
●Dimensions (Unit : mm)



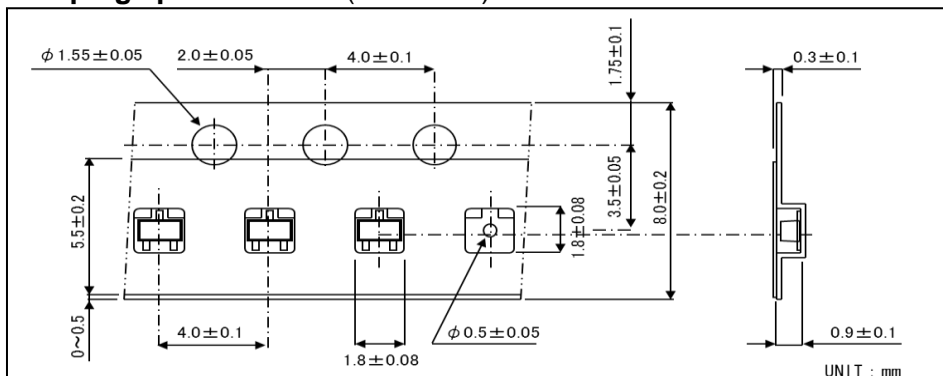
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



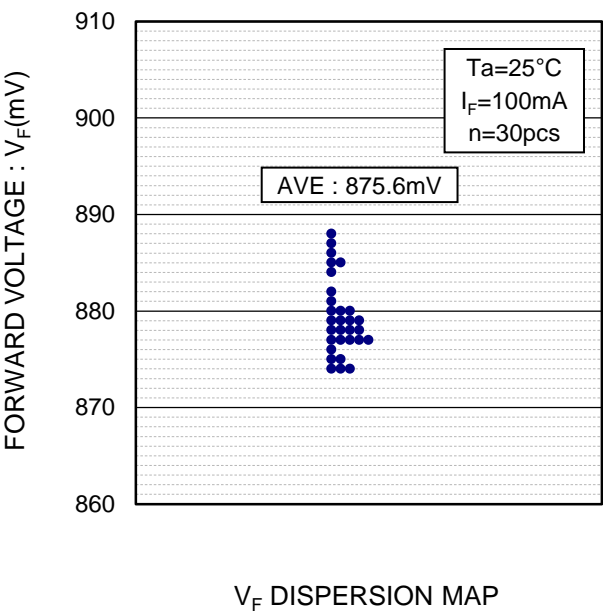
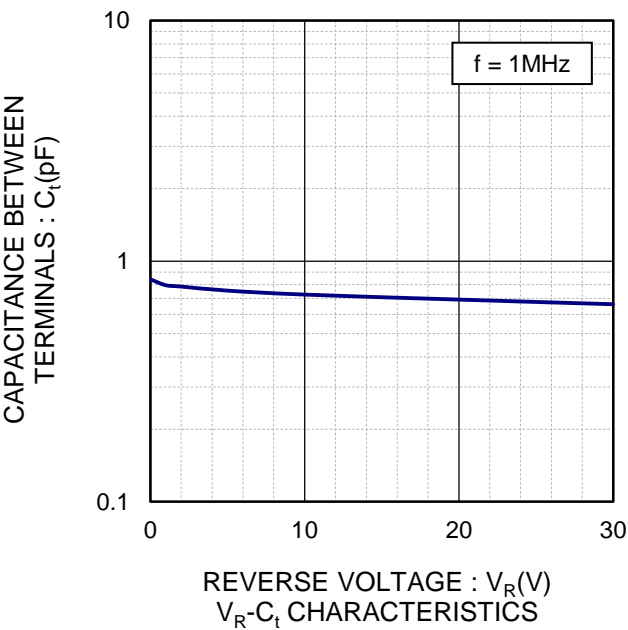
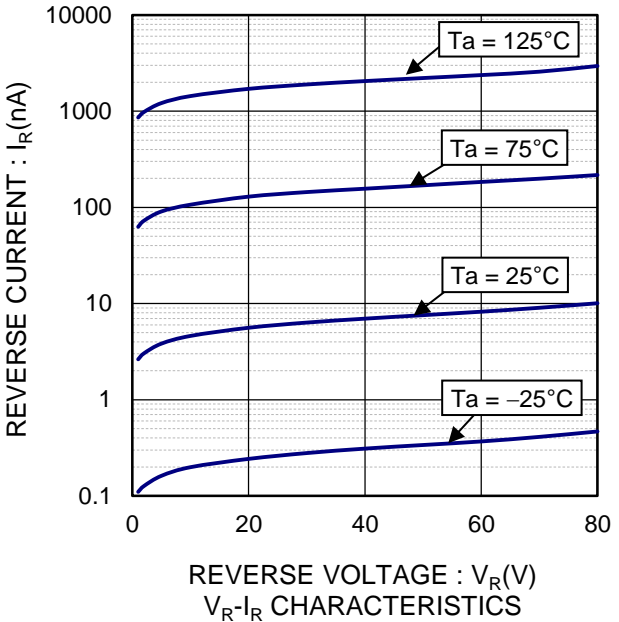
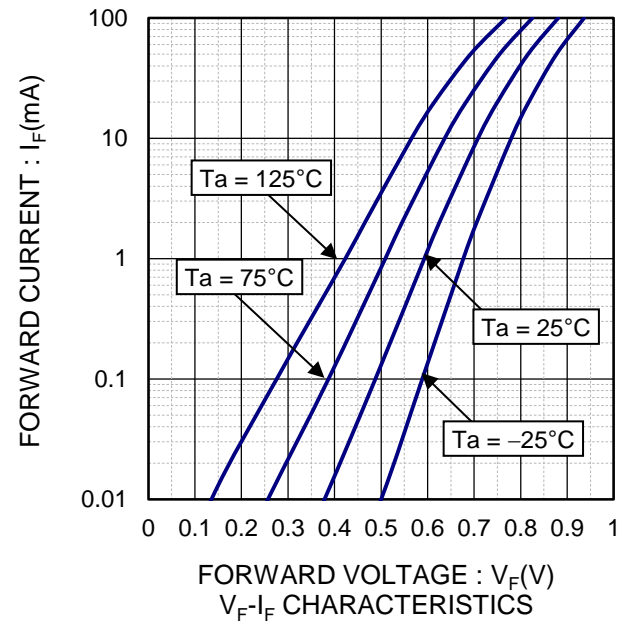
●Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	80	V
Reverse voltage (DC)	V_R	80	V
Forward voltage(repetitive peak)	I_{FM}	300	mA
Average rectified forward current	I_o	100	mA
Surge current ($t=1\mu\text{s}$)	I_{surge}	4	A
Power dissipation	P_d	150	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

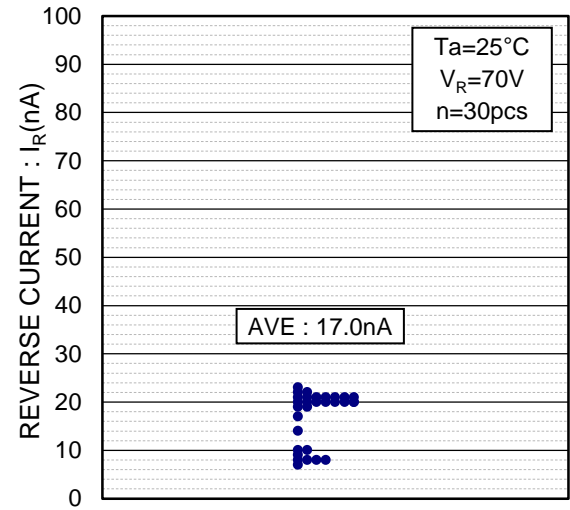
●Electrical characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.2	V	$I_F=100\text{mA}$
Reverse current	I_R	-	-	0.1	μA	$V_R=70\text{V}$
Capacitance between terminals	C_t	-	-	3.5	pF	$V_R=6\text{V}$, $f=1\text{MHz}$
Reverse recovery time	t_{rr}	-	-	4	ns	$V_R=6\text{V}$, $I_F=5\text{mA}$, $R_L=50\Omega$

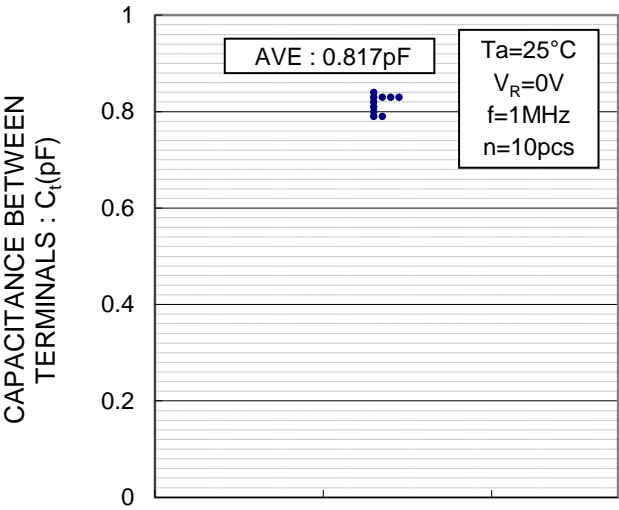
●Electrical characteristic curves



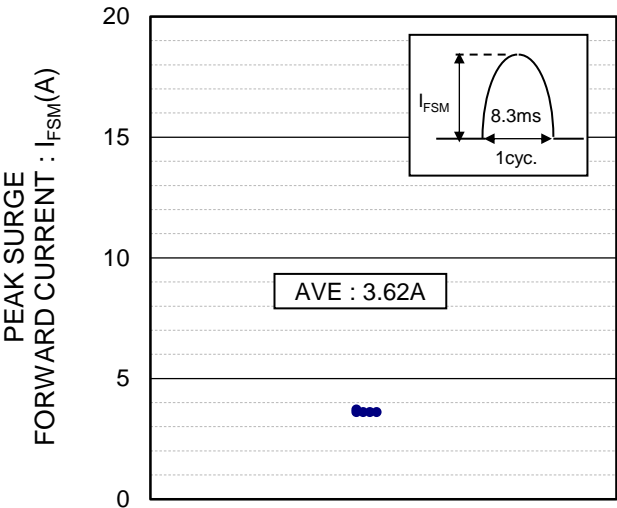
●Electrical characteristic curves



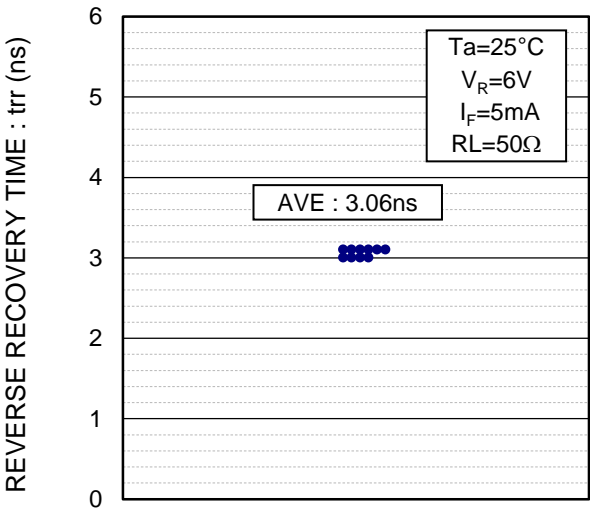
I_R DISPERSION MAP



C_t DISPERSION MAP

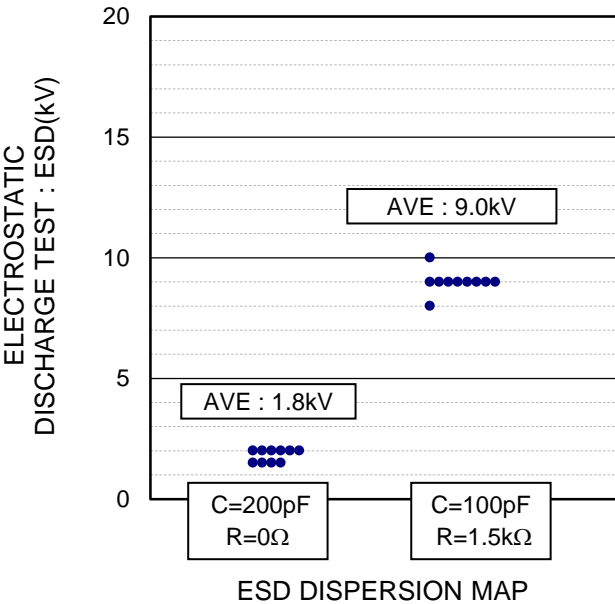
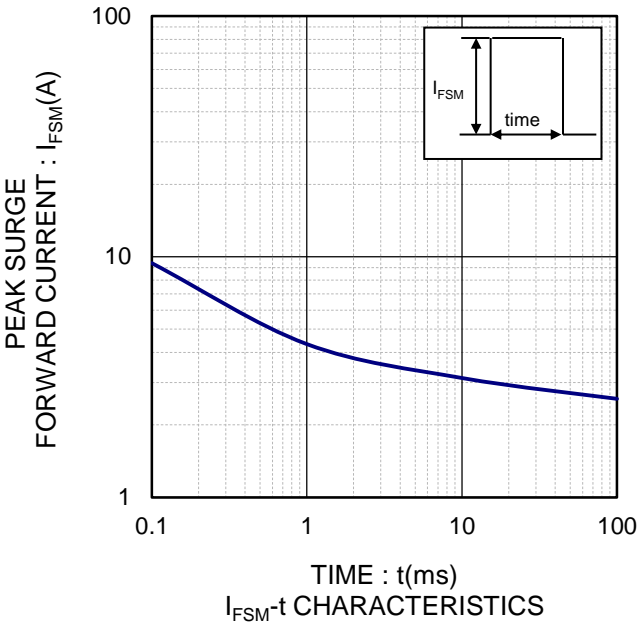
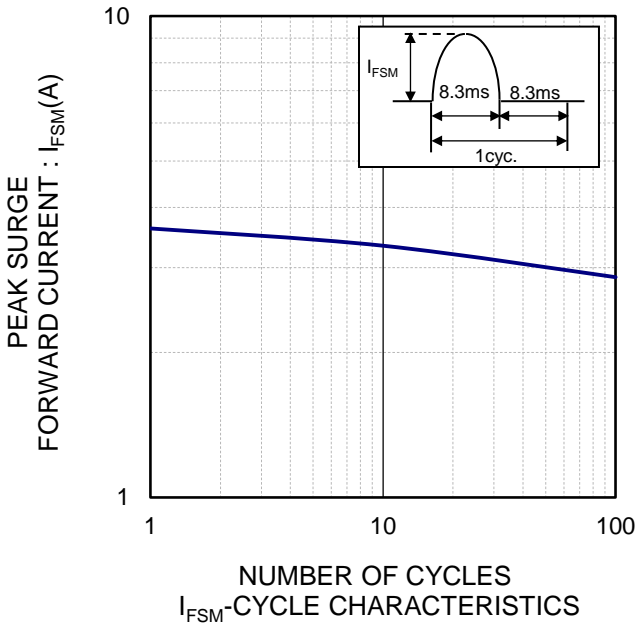


I_{FSM} DISPERSION MAP



trr DISPERSION MAP

●Electrical characteristic curves



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