

Switching Diode

Application

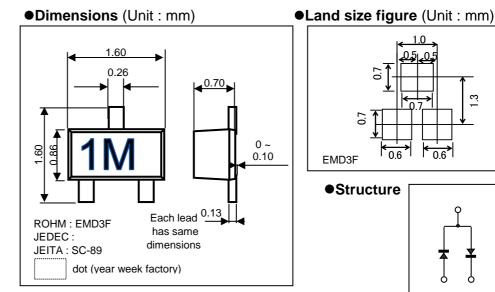
High frequency switching

Features

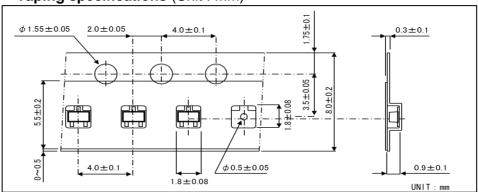
- Ultra small mold type (EMD3F)
- 2) High reliability

Construction

Silicon epitaxial planar



● Taping specifications (Unit: mm)



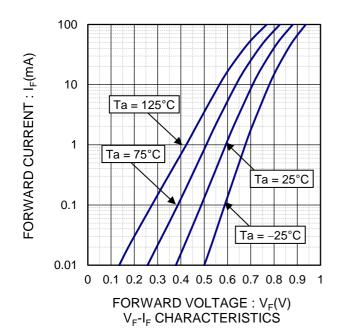
● Absolute maximum ratings (T_a = 25°C)

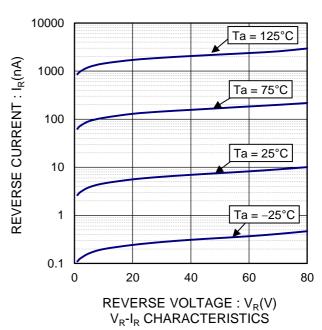
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	80	V
Reverse voltage (DC)	V_R	80	V
Forward voltage(repetitive peak)	I _{FM}	300	mA
Average rectified forward current	I _o	100	mA
Surge current (t=1us)	I _{surge}	4	Α
Power dissipation	Pd	150	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

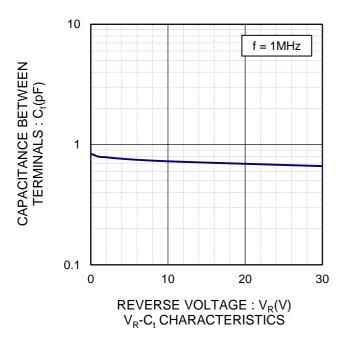
●Electrical characteristics (T_a = 25°C)

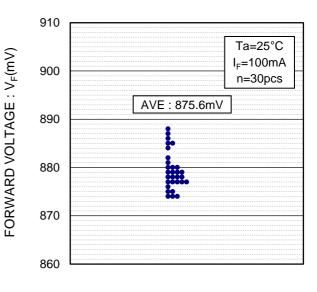
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	-	1.2	V	I _F =100mA
Reverse current	I_R	-	1	0.1	μΑ	V _R =70V
Capacitance between terminals	C _t	-	1	3.5	pF	V _R =6V, f=1MHz
Reverse recovery time	trr	-	-	4	ns	V_R =6V, I_F =5mA, RL =50 Ω

•Electrical characteristic curves



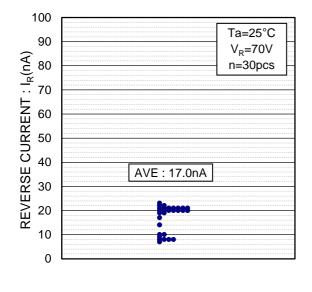


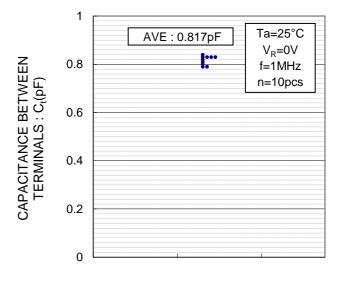




V_F DISPERSION MAP

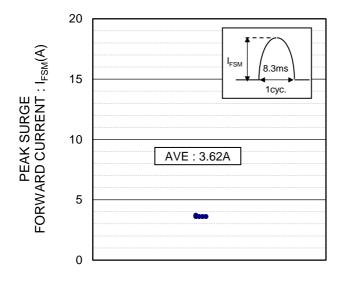
•Electrical characteristic curves



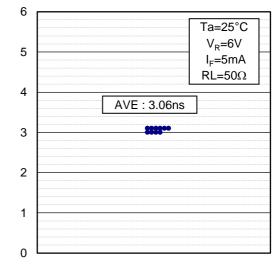


I_R DISPERSION MAP

C_t DISPERSION MAP



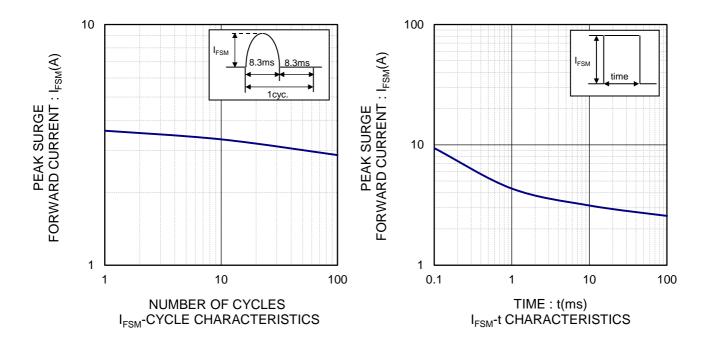
REVERSE RECOVERY TIME: trr (ns)

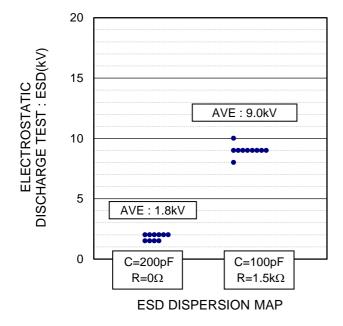


I_{FSM} DISPERSION MAP

trr DISPERSION MAP

•Electrical characteristic curves





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