

Diodes

FMN1

Switching diode

FMN1

●Application

Ultra high speed switching

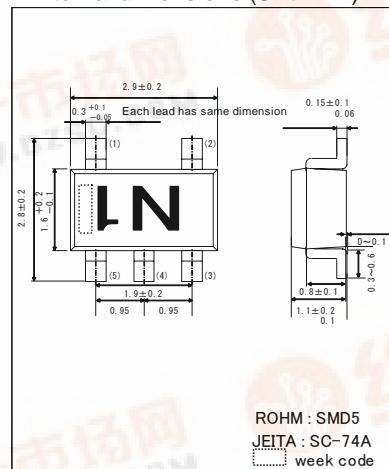
●Features

- 1) Small mold type. (SMD5)
- 2) High reliability

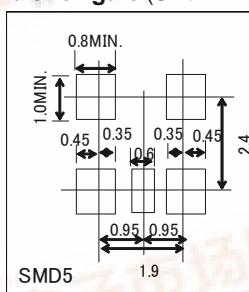
●Construction

Silicon epitaxial planar

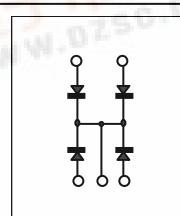
●External dimensions (Unit : mm)



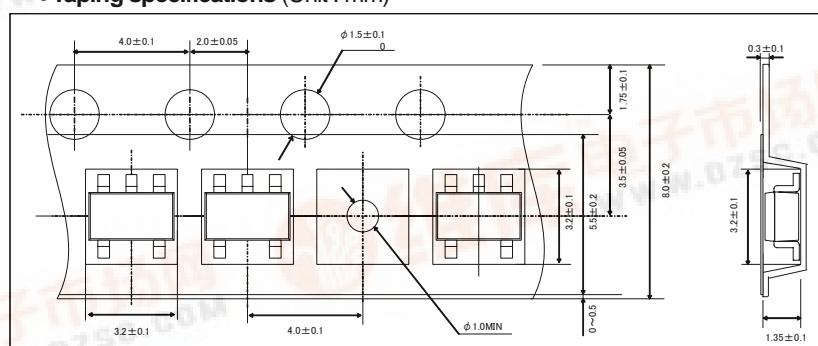
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

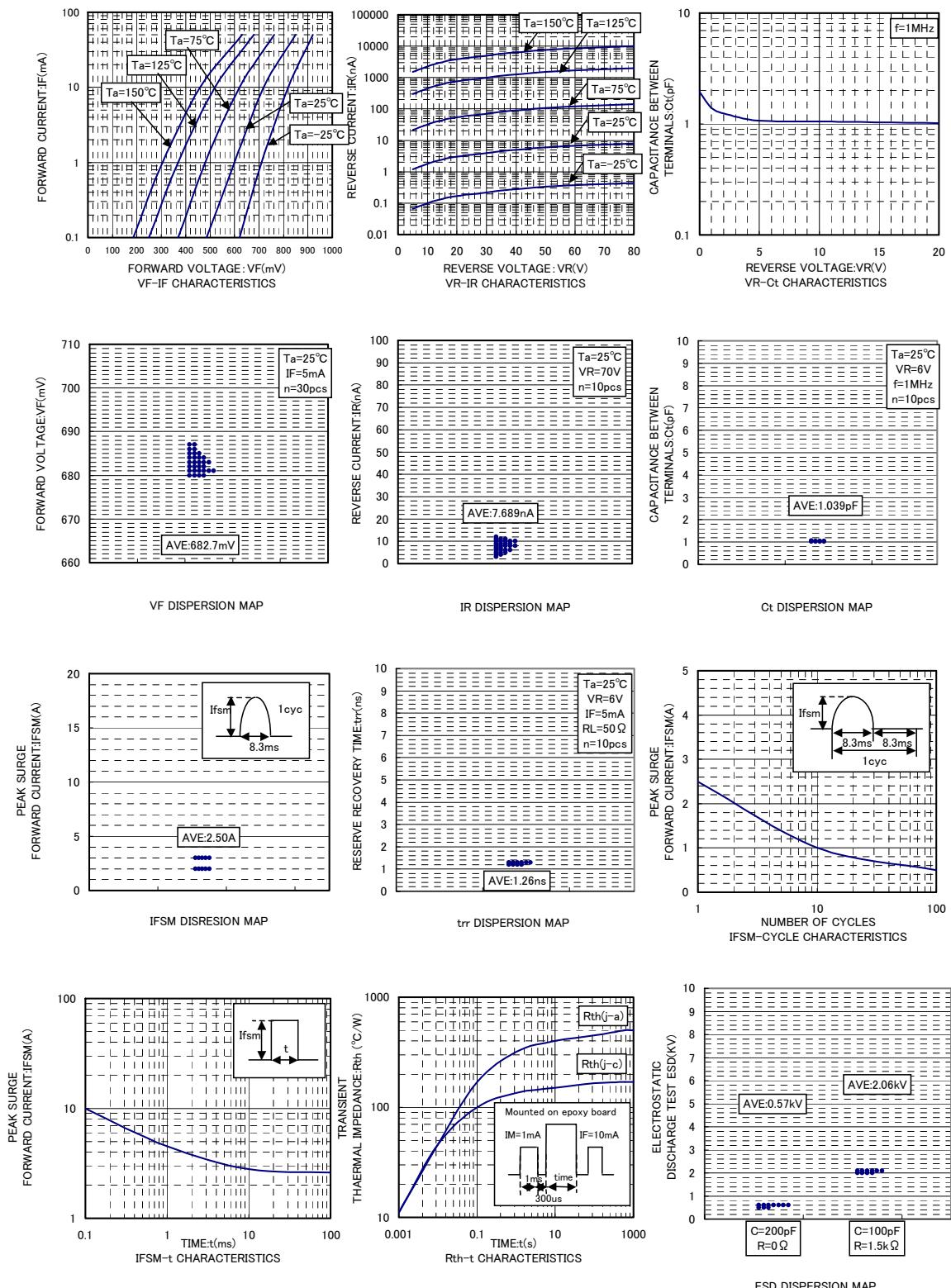
Parameter	Symbol	Limits	Unit
Reverse voltaeg (repetitive peak)	V_{RM}	80	V
Reverse voltage (DC)	V_R	80	V
Forward current (Single)	I_{FM}	80	mA
Average rectified forward current (Single)	I_o	25	mA
Surge current ($t=1\mu s$)	I_{surge}	250	mA
Power dissipation	P_d	150	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.9	V	$I_F=5\text{mA}$
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	trr	-	-	4	ns	$V_R=6\text{V}$, $I_F=5\text{mA}$, $RL=50\Omega$

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●Electrical characteristic curves (Ta=25°C)



Appendix

Notes

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