

Switching diode

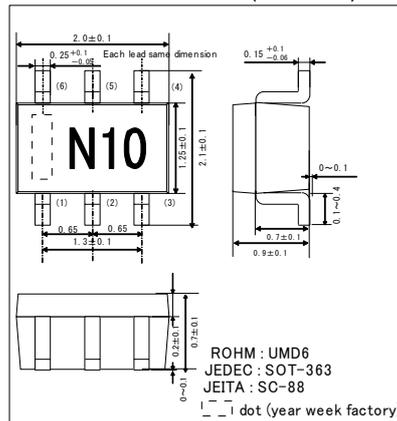
UMN10N

- Applications
Very fast recovery

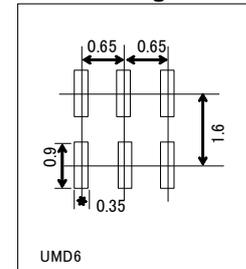
- Features
1) Small mold type. (UMD6)
2) High reliability

- Construction
Silicon epitaxial planer

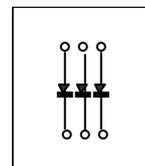
●External dimensions (Unit : mm)



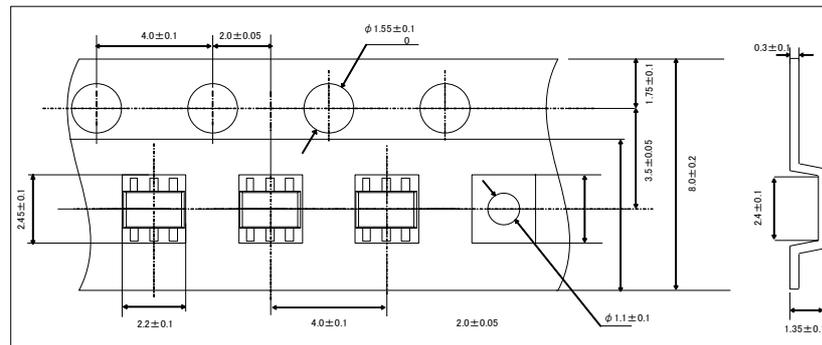
●Land size figure



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

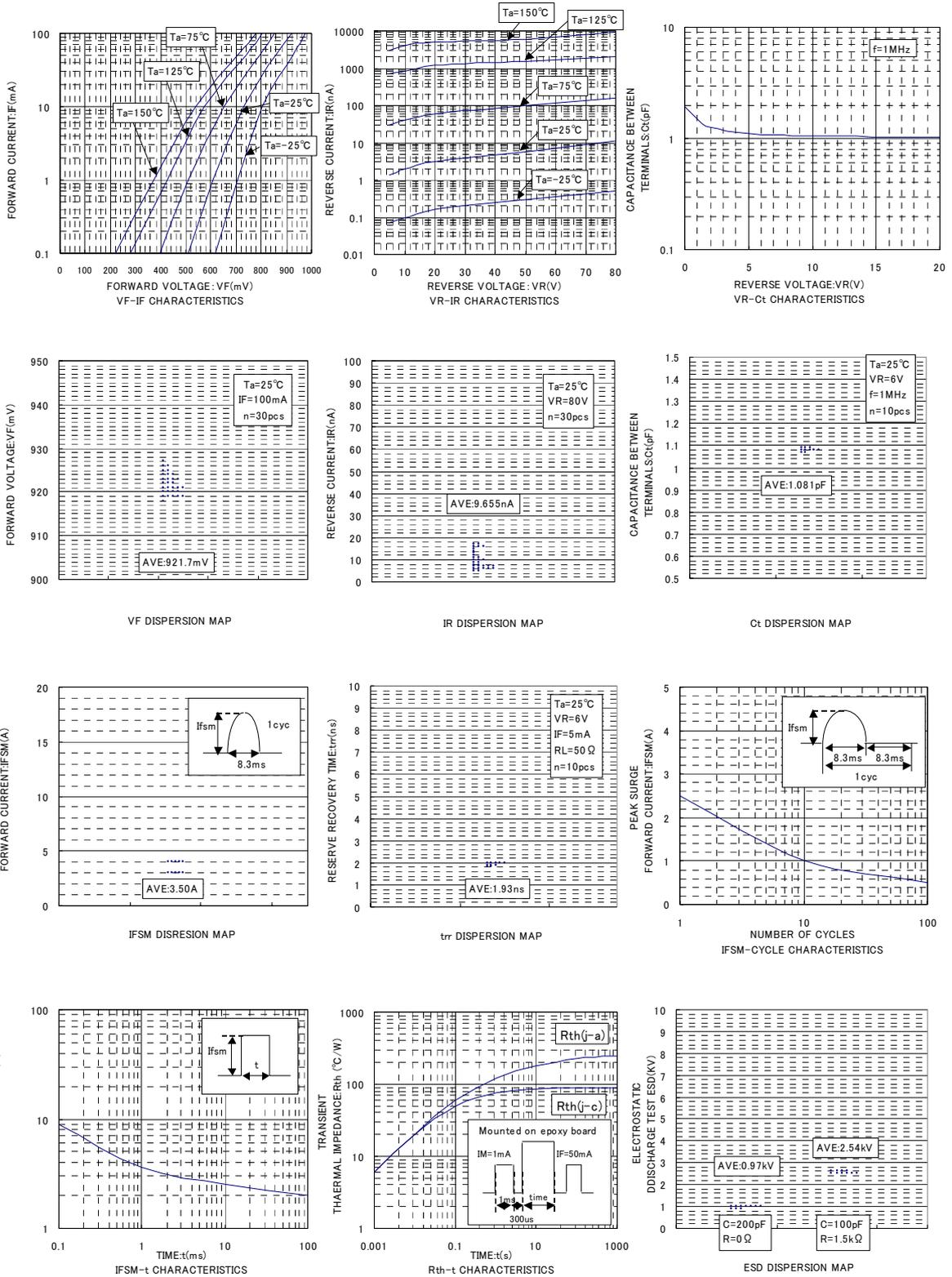
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	80	V
Reverse voltage (DC)	V_R	80	V
Forward current repetitive peak (Single)	I_{FM}	300	mA
Average rectified forward current (Single)	I_o	100	mA
Surge current (t=1us)	I_{surge}	4	A
Power dissipation	P_d	200	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

●Electrical characteristic (Ta=25°C)

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

Diodes

●Electrical characteristic curves



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