

Switching Diode

UMN20N

●Applications

General switching

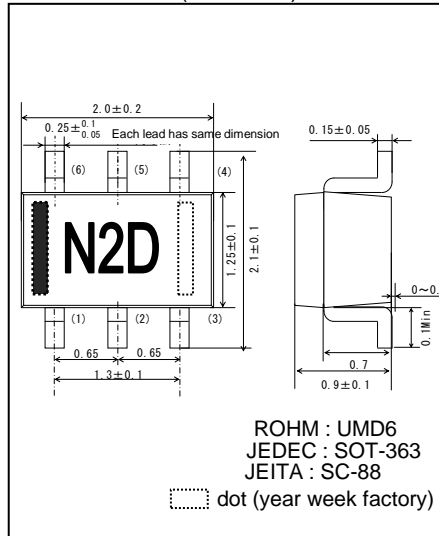
●Features

- 1) Small mold type. (UMD6)
- 2) Low leakage

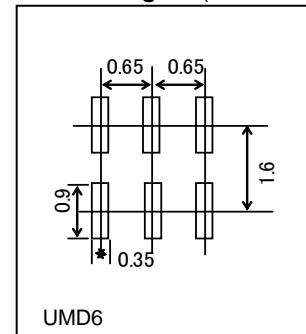
●Construction

Silicon epitaxial planer

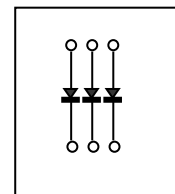
●Dimensions (Unit : mm)



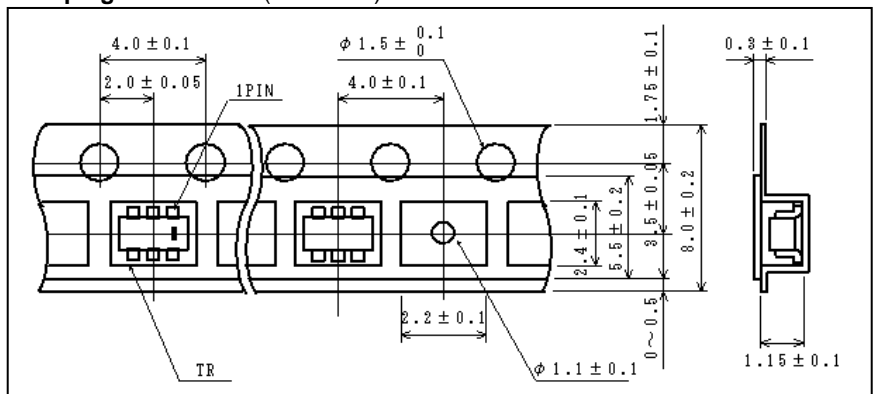
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

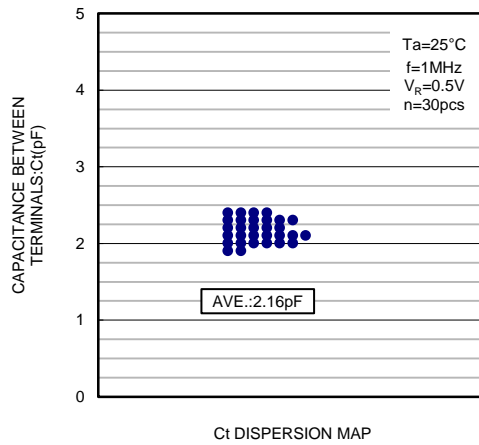
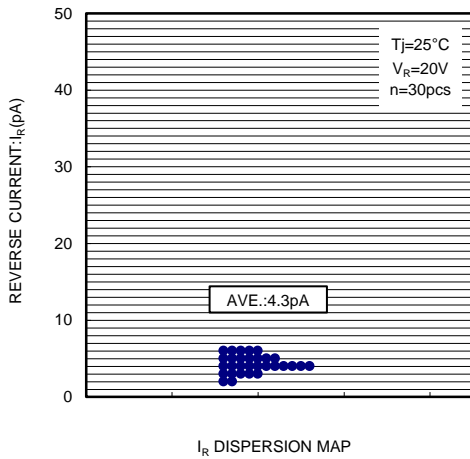
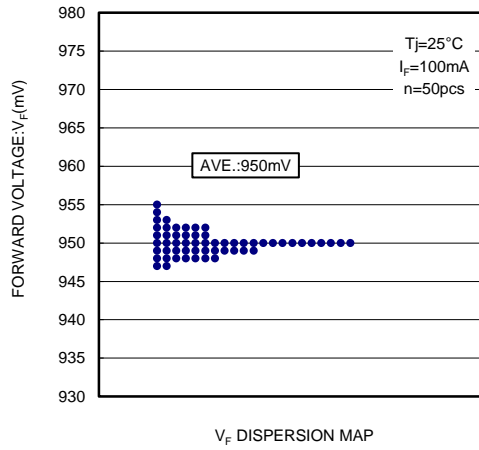
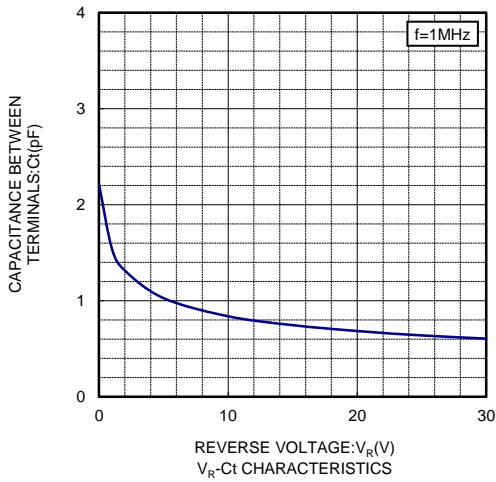
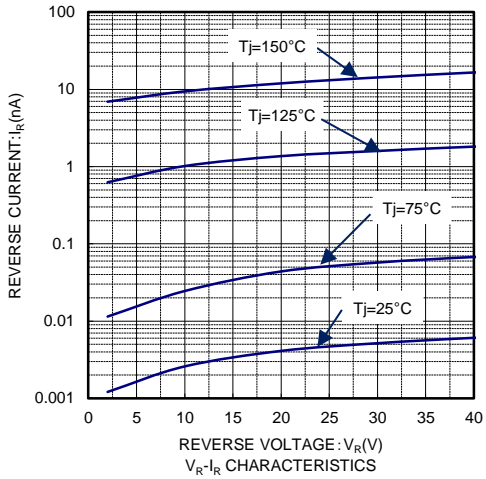
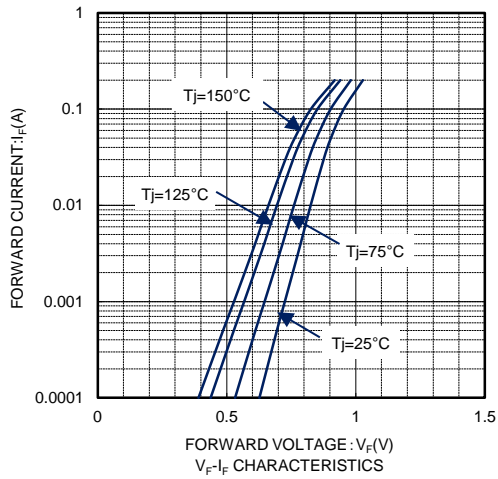


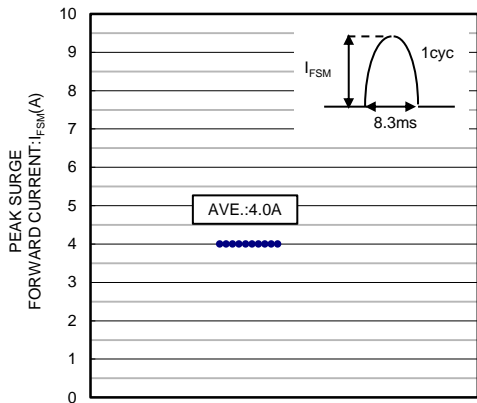
●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	35	V
Forward current (repetitive peak)	I_{FM}	225	mA
Average rectified forward current	I_o	100	mA
Surge current (t=1sec)	I_{surge}	400	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

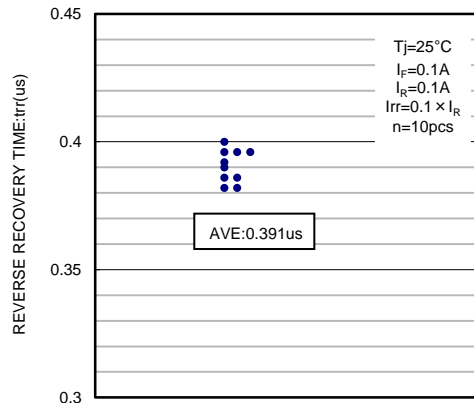
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.2	V	$I_F=100mA$
Reverse current	I_R	-	-	0.01	μA	$V_R=20V$
Capacitance between terminals	C_t	-	-	5.0	pF	$V_R=0.5V, f=1.0MHz$

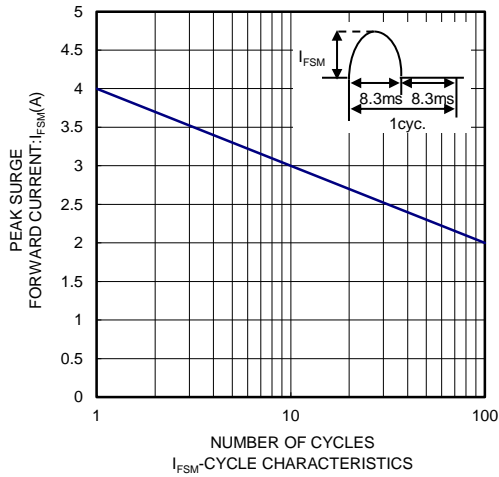




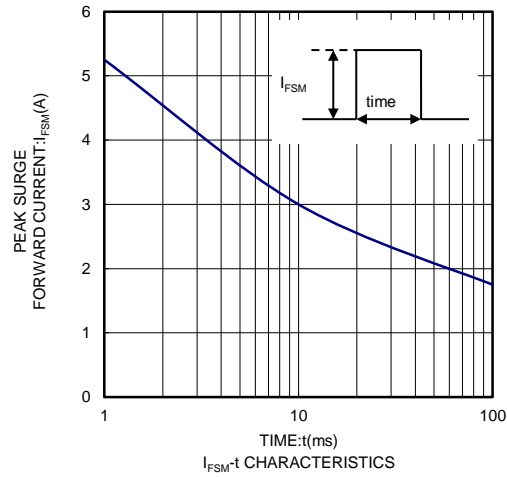
I_{FSM} DISPERSION MAP



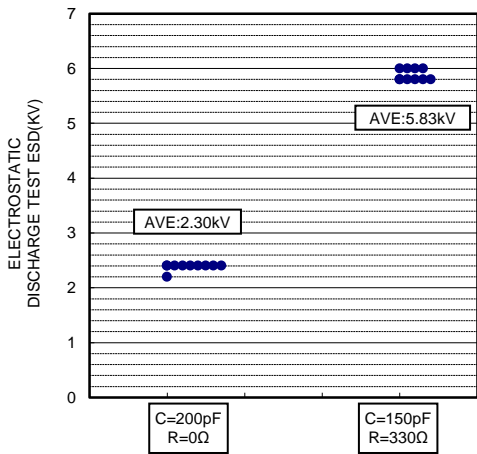
trr DISPERSION MAP



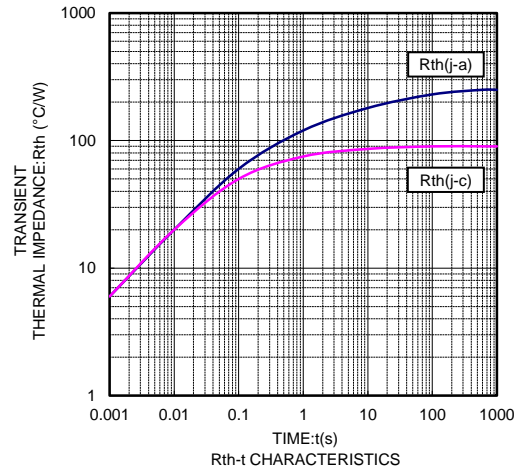
I_{FSM} -CYCLE CHARACTERISTICS



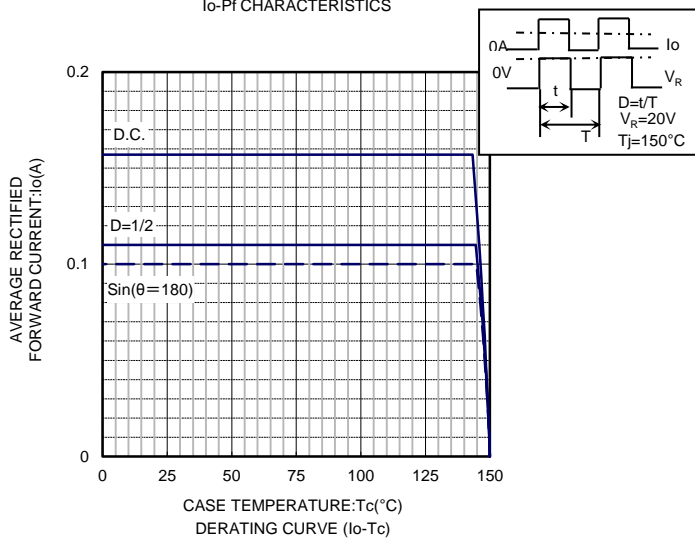
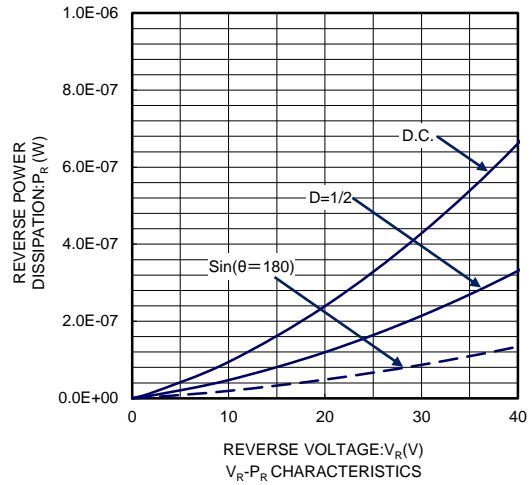
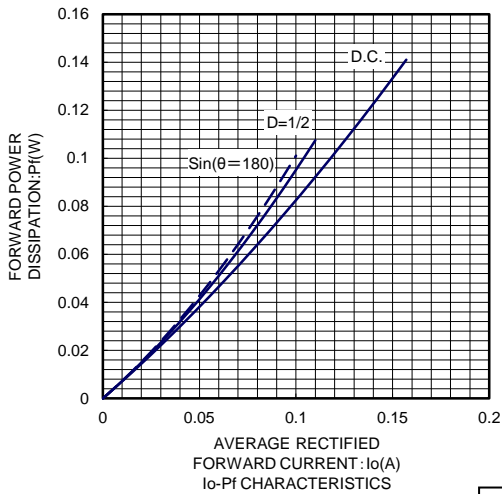
I_{FSM} -t CHARACTERISTICS



ESD DISPERSION MAP



R_{th} -t CHARACTERISTICS



Notes

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