Switching diode

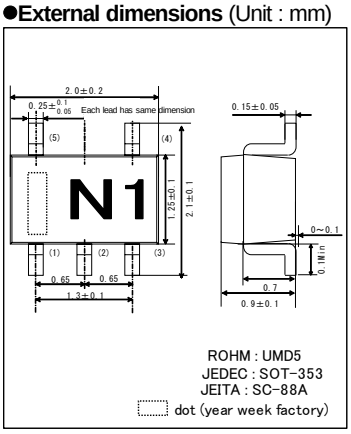
UMN1N

●**Application**
Ultra high speed switching

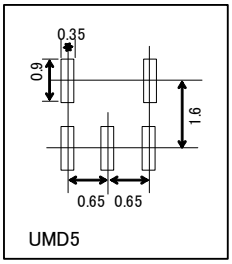
●**Features**
1) Small mold type. (UMD5)
2) High reliability

●**Construction**
Silicon epitaxial planar

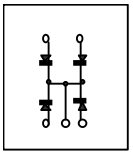
●**External dimensions** (Unit : mm)



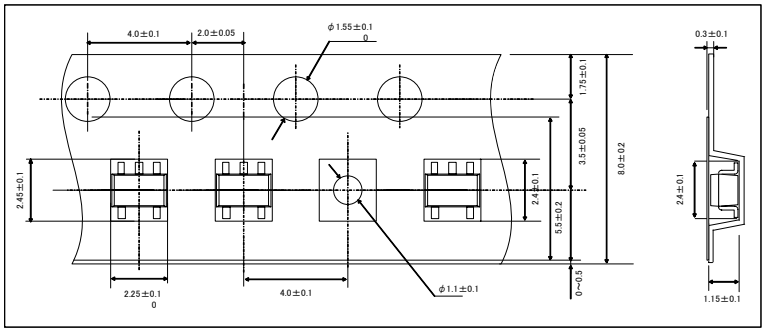
●**Land size figure** (Unit : mm)



●**Structure**



●**Taping specifications** (Unit : mm)



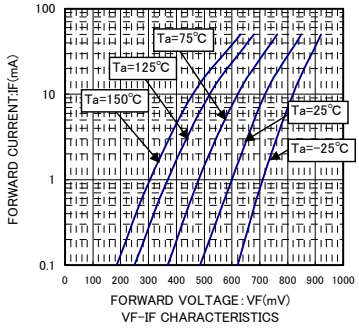
●**Absolute maximum ratings** (Ta=25°C)

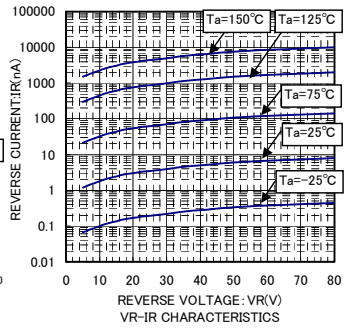
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	80	V
Reverse voltage (DC)	V_R	80	V
Forward current (Single)	I_{FM}	80	mA
Average rectified forward current (Single)	Io	25	mA
Surge current（t=1us）	I_{surge}	250	mA
Power dissipation	Pd	150	mW
Junction temperature	Tj	150	℃
Storage temperature	Tstg	-55 to +150	℃

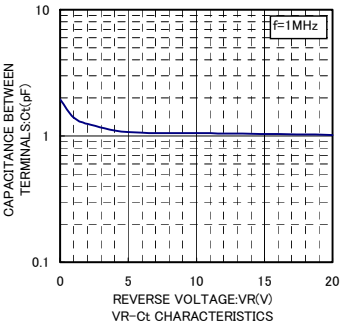
●**Electrical characteristics** (Ta=25°C)

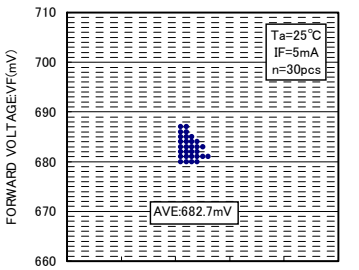
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.9	V	I_F=5mA
Reverse current	I_R	-	-	0.1	μA	V_R=70V
Capacitance between terminals	Ct	-	-	3.5	pF	V_R=6V , f=1MHz
Reverse recovery time	trr	-	-	4	ns	V_R=6V , IF=5mA , RL=50Ω

●**Electrical characteristic curves** (Ta=25°C)

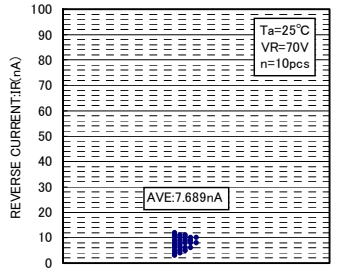




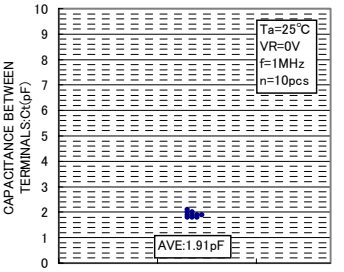




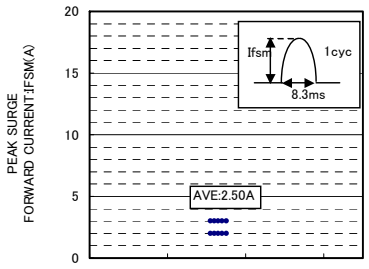
VF DISPERSION MAP



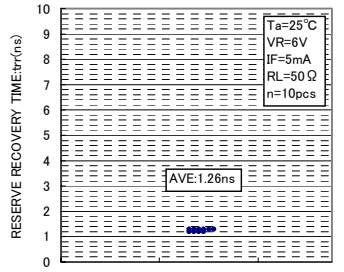
IR DISPERSION MAP



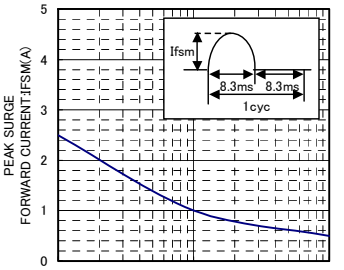
Ct DISPERSION MAP

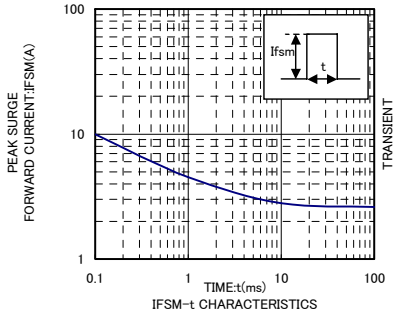


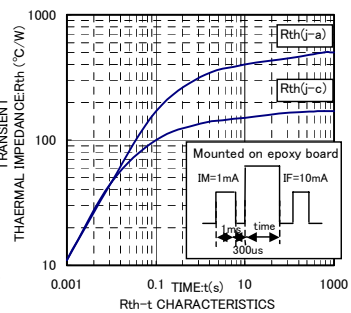
IFSM DISRESION MAP

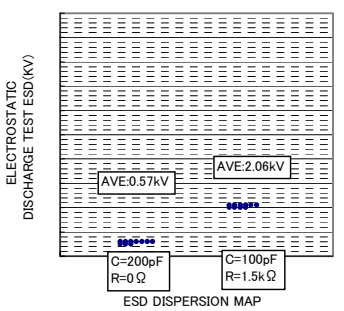


trr DISPERSION MAP









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