Switching diode

DA221

●**Applications**

Ultra high speed switching

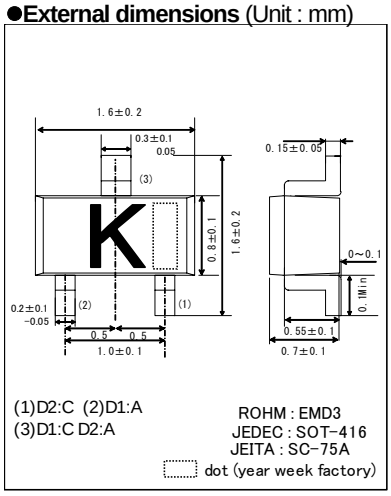
●**Features**

1) Ultra small mold type. (EMD3)
2) High reliability.

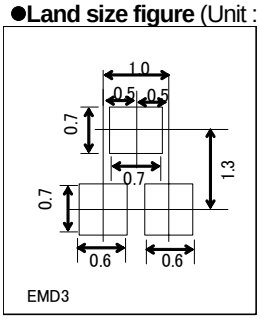
●**Construction**

Silicon epitaxial planar

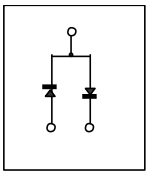
●**External dimensions** (Unit : mm)



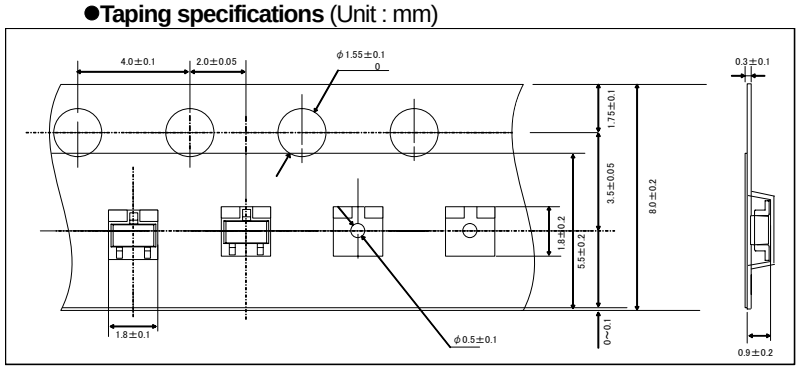
●**Land size figure** (Unit : mm)



●**Structure**



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



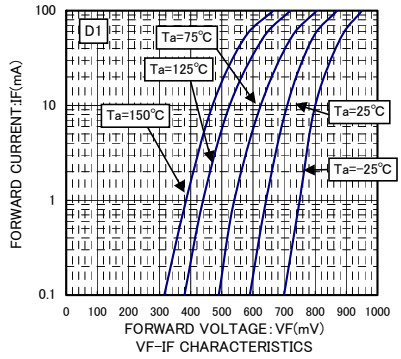
●**Absolute maximum ratings** (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	20	V
Reverse voltage (DC)	V_R	20	V
Forward current (Single)	I_{FM}	200	mA
Average rectified forward current (Single)	Io	100	mA
Surge current（t=1us）	I_{surge}	300	mA
Power dissipation	Pd	150	mW
Junction temperature	Tj	150	℃
Storage temperature	Tstg	-55 to +150	℃
Rarted in slash put frequency	f	100	MHz

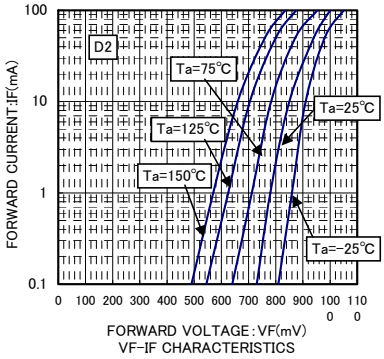
●**Electrical characteristics** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.0	V	I_F=10mA
Reverse current	I_R	-	-	0.1	μA	V_R=15V
Capacitance between terminals	Ct	-	-	4.0	pF	V_R=6V , f=1MHz

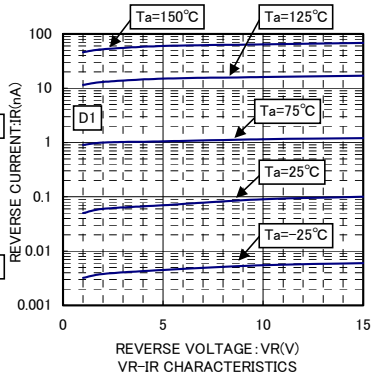
●**Electrical characteristic curves** (Ta=25°C)



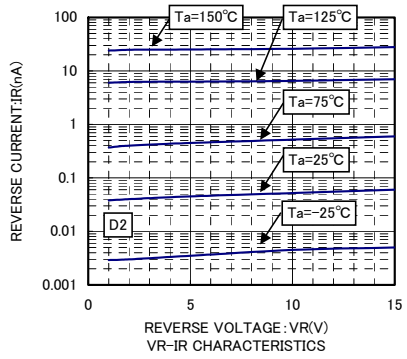
VF-IF CHARACTERISTICS



VF-IF CHARACTERISTICS



VR-IR CHARACTERISTICS



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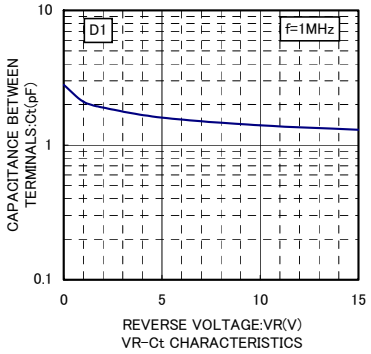
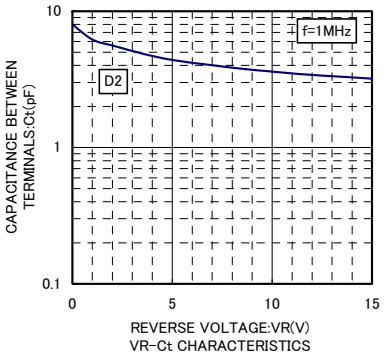
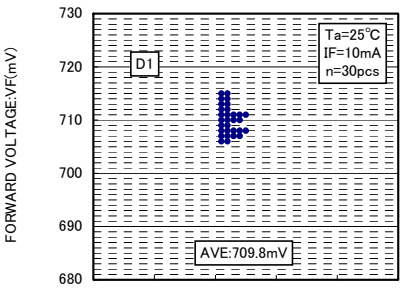


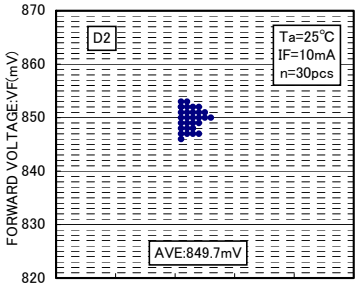
VR-Ct CHARACTERISTICS



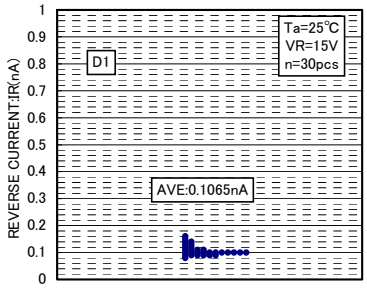
VR-Ct CHARACTERISTICS



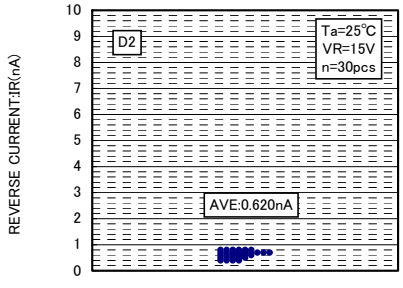
VF DISPERSION MAP



VF DISPERSION MAP



IR DISPERSION MAP



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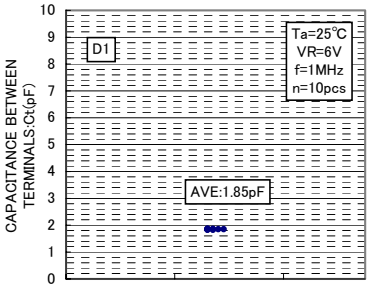
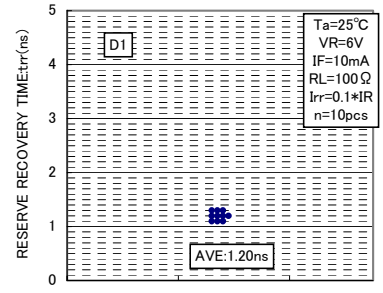
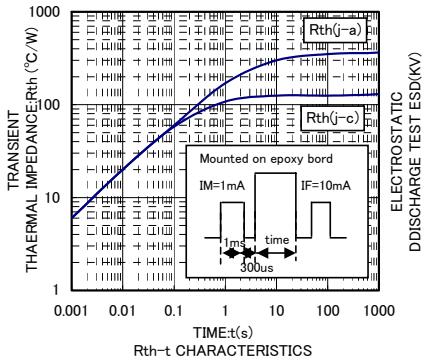


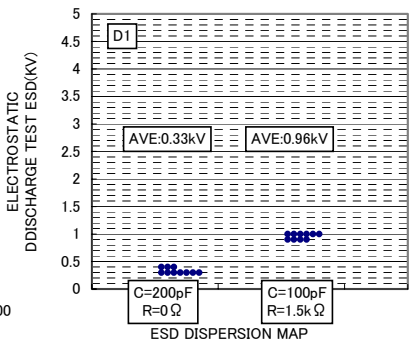
Ct DISPERSION MAP



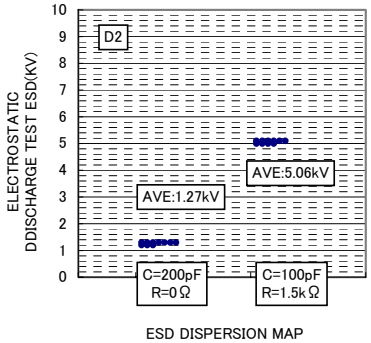
trr DISPERSION MAP



Rth-t CHARACTERISTICS



ESD DISPERSION MAP



ESD DISPERSION MAP

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