

Switching Diode

DA221

●Applications

Ultra high speed switching

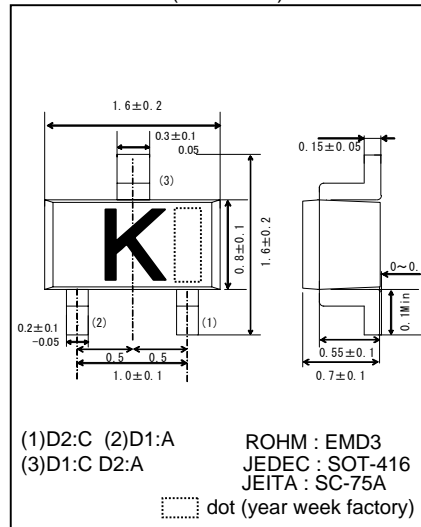
●Features

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

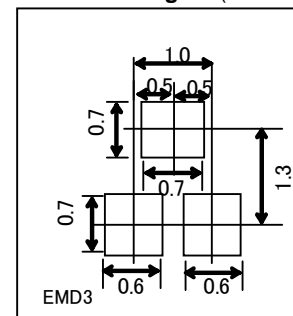
●Construction

Silicon epitaxial planar

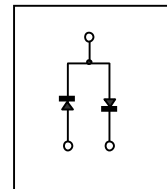
●Dimensions (Unit : mm)



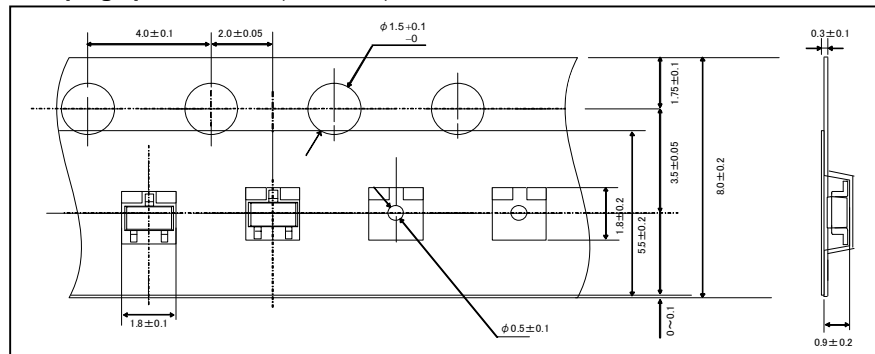
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)

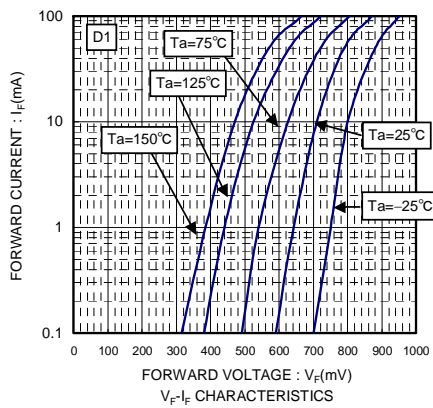


●Absolute maximum ratings (Ta=25°C)

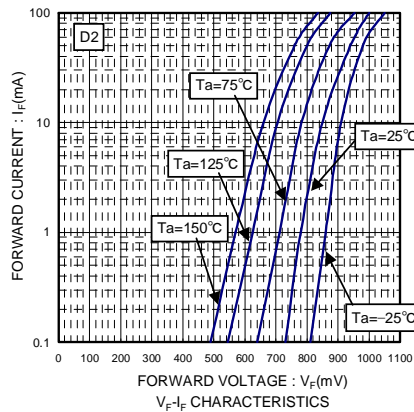
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	20	V
Reverse voltage (DC)	V_R	20	V
Forward current (Single)	I_{FM}	200	mA
Average rectified forward current (Single)	I_o	100	mA
Surge current ($t=1\mu s$)	I_{surge}	300	mA
Power dissipation	P_d	150	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C
Rated in slash put frequency	f	100	MHz

●Electrical characteristics (Ta=25°C)

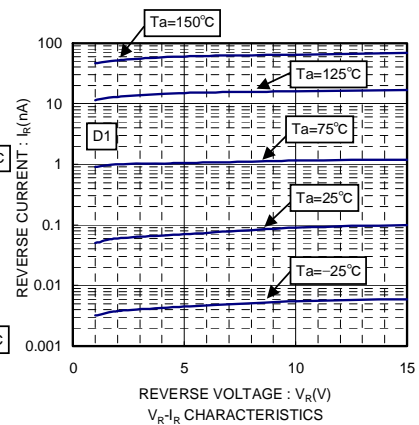
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.0	V	$I_F=10mA$
Reverse current	I_R	-	-	0.1	μA	$V_R=15V$
Capacitance between terminals	C_t	-	-	4.0	pF	$V_R=6V, f=1MHz$



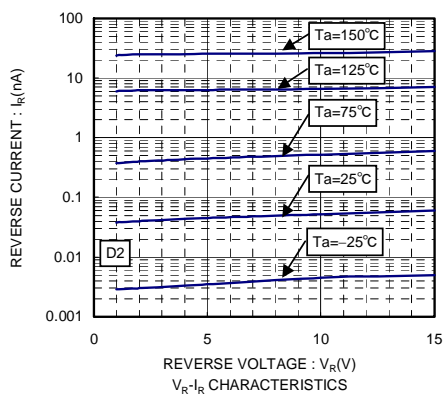
V_F - I_F CHARACTERISTICS



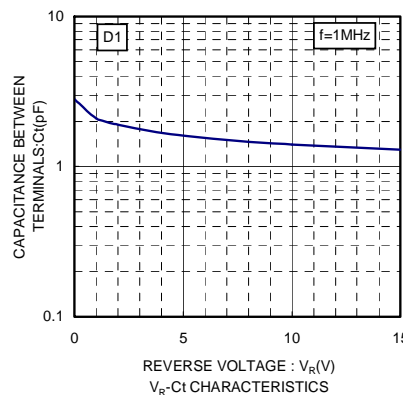
V_F - I_F CHARACTERISTICS



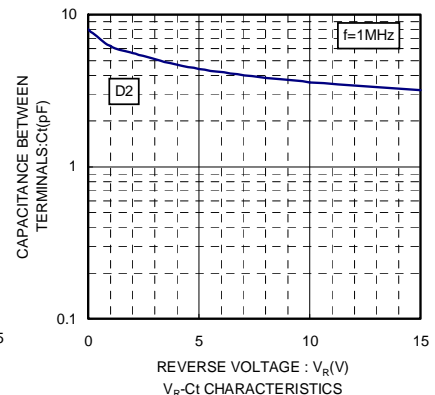
V_R - I_R CHARACTERISTICS



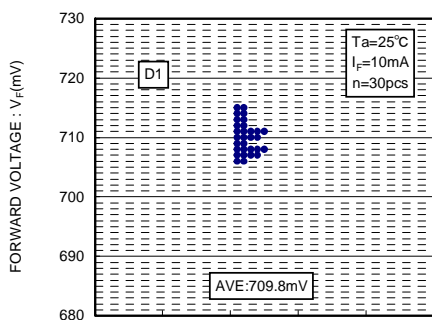
V_R - I_R CHARACTERISTICS



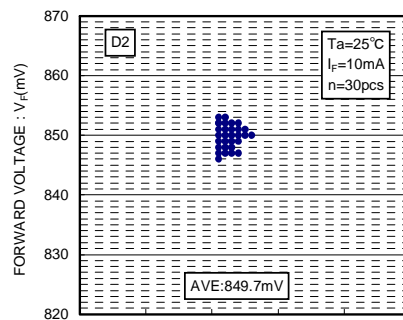
V_R - C_t CHARACTERISTICS



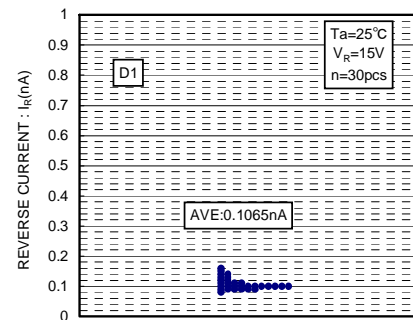
V_R - C_t CHARACTERISTICS



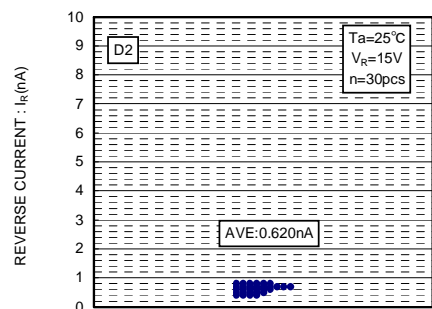
V_F DISPERSION MAP



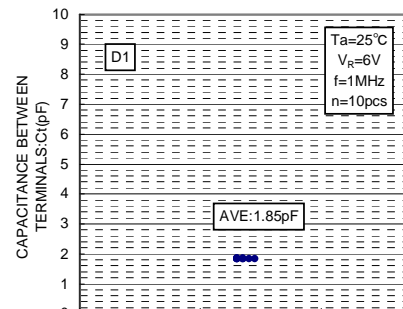
V_F DISPERSION MAP



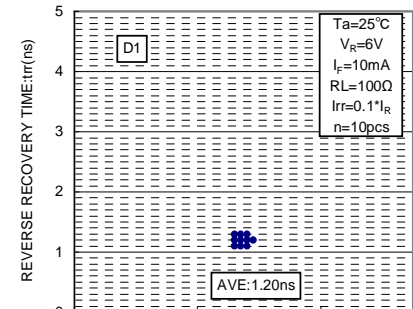
I_R DISPERSION MAP



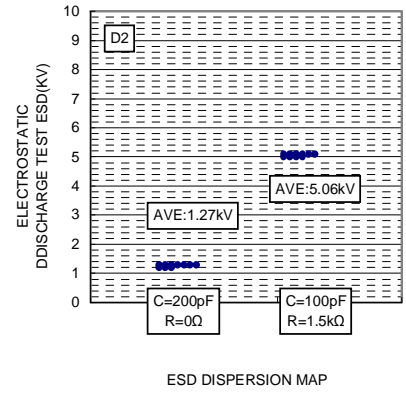
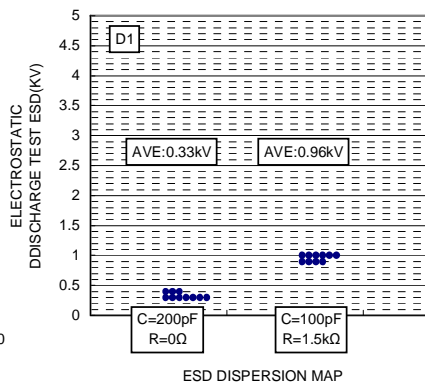
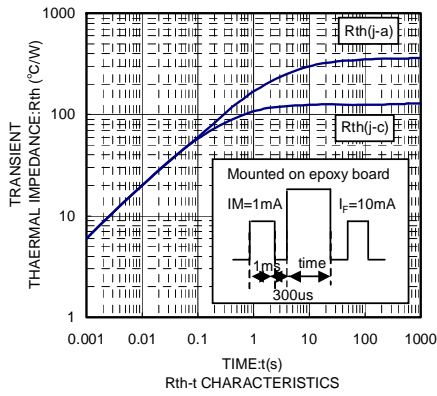
I_R DISPERSION MAP



C_t DISPERSION MAP



t_{rr} DISPERSION MAP



Notes

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