Switching Diode

DA204U

●Applications

Ultra high speed switching

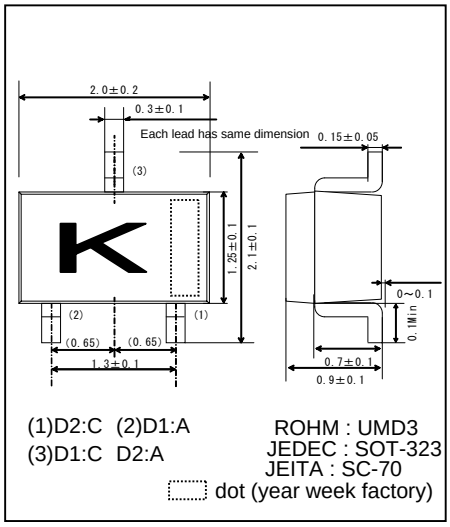
●Features

1) Small mold type. (UMD3)
2) High reliability

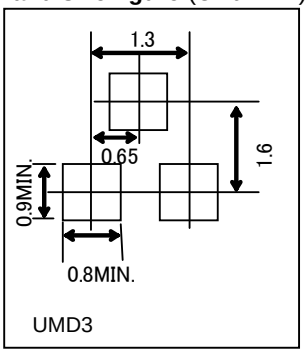
●Construction

Silicon epitaxial planar

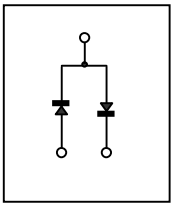
●Dimensions (Unit : mm)



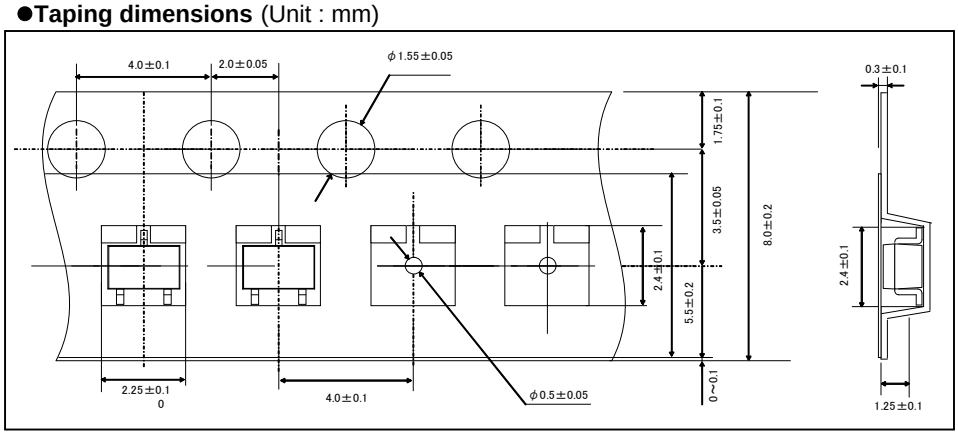
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



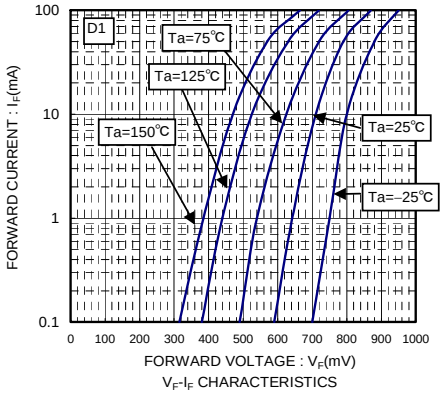
●Absolute maximum ratings (Ta=25°C)

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

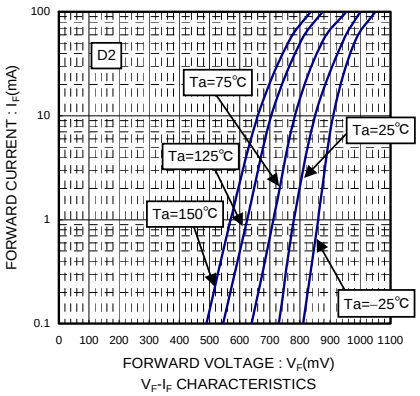
●Electrical characteristics (Ta=25°C)

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
Capacitence between terminals	Ct	-	-	4.0	pF	V_R=6V , f=1MHz

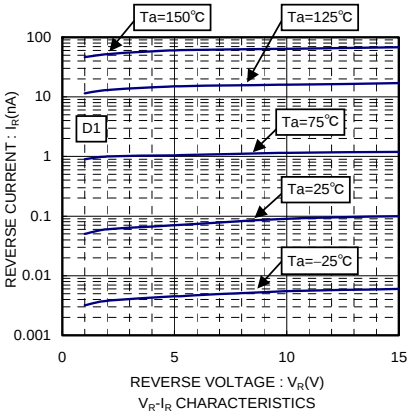
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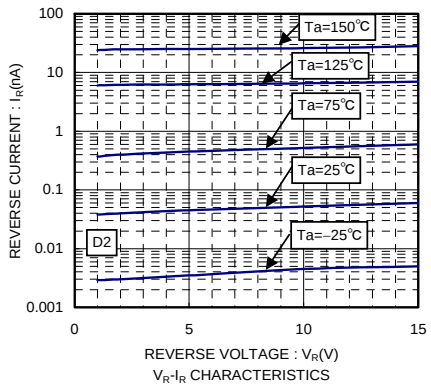
VF-IF CHARACTERISTICS



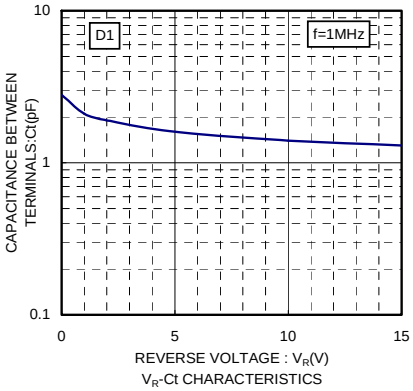
VF-IF CHARACTERISTICS



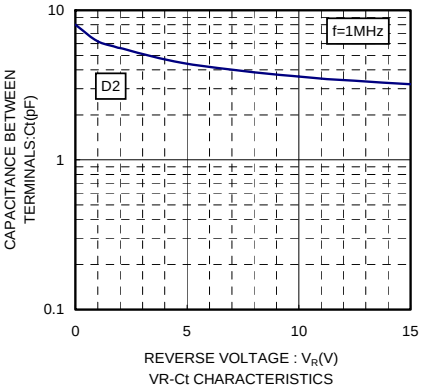
VR-IR CHARACTERISTICS



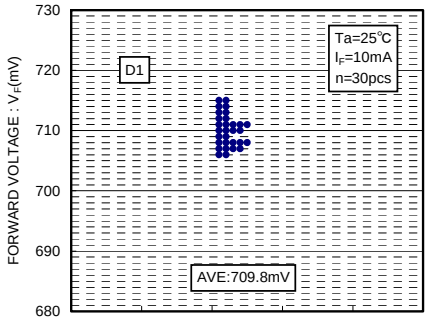
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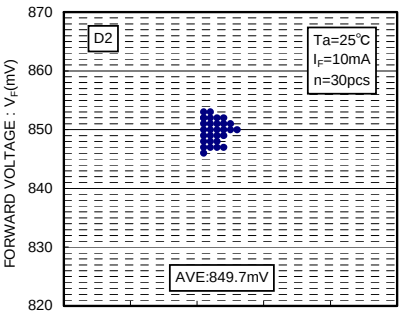
VR-Ct CHARACTERISTICS



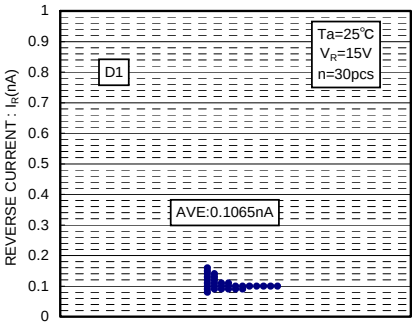
VR-Ct CHARACTERISTICS



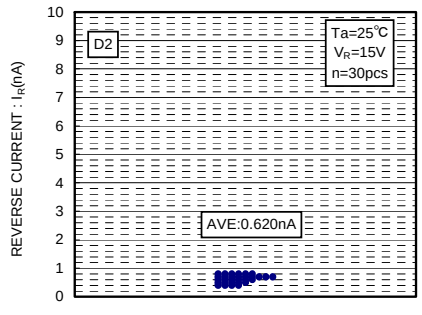
VF DISPERSION MAP



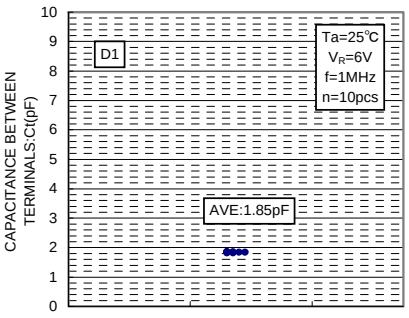
VF DISPERSION MAP



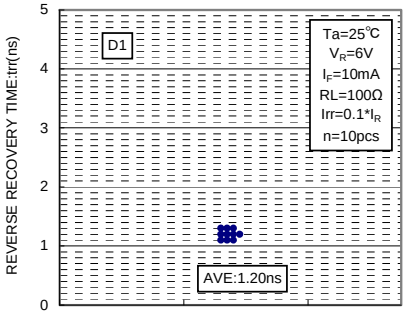
IR DISPERSION MAP



IR DISPERSION MAP

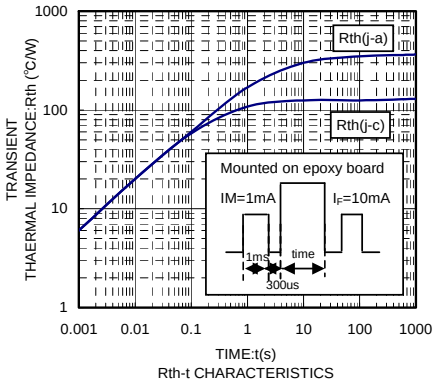


Ct DISPERSION MAP

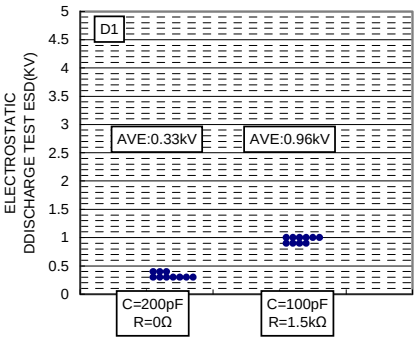


trr DISPERSION MAP

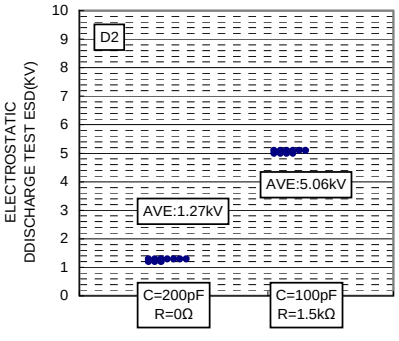
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Rth-t CHARACTERISTICS



ESD DISPERSION MAP



ESD DISPERSION MAP

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