Leadless high voltage switching diode

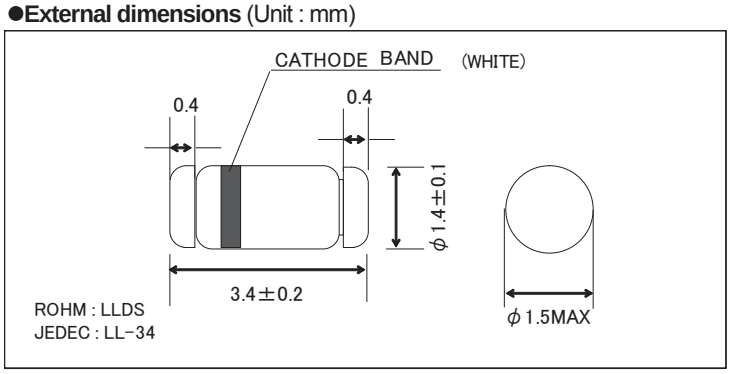
RLS245

●**Applications**
High voltage switching
General purpose rectification

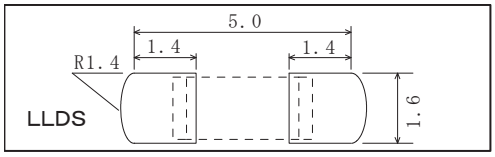
●**Features**
1) Ultra small. (LLDS)
2) For surface mounting.
3) High voltage and high reliability.

●**Construction**
Silicon epitaxial planar

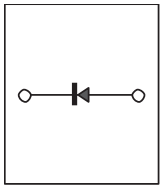
●**External dimensions** (Unit : mm)



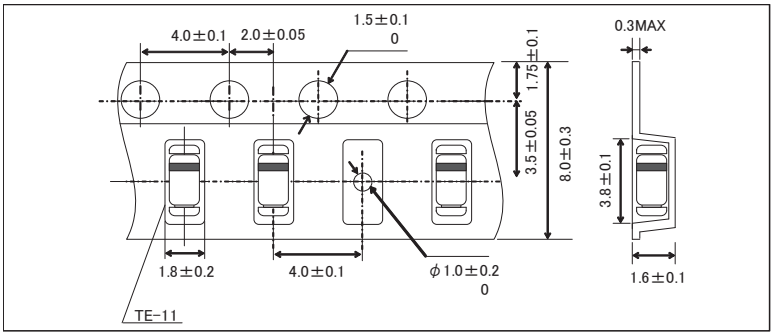
●**Land size figure** (Unit : mm)



●**Structure**



●**Taping specifications**



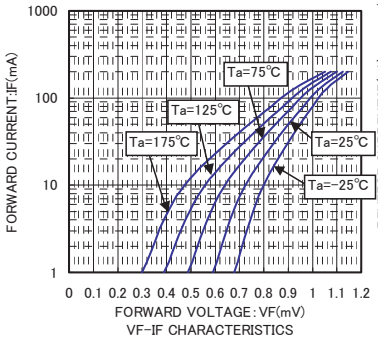
●**Absolute maximum ratings** (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	250	V
Reverse voltage (DC)	V_R	220	V
Forward current	I_{FM}	625	mA
Average rectified forward current	Io	200	mA
Surge current (1s)	I_{surge}	1000	mA
Power dissipation	P	300	mW
Junction temperature	Tj	175	℃
Storage temperature	Tstg	-65 to +175	℃

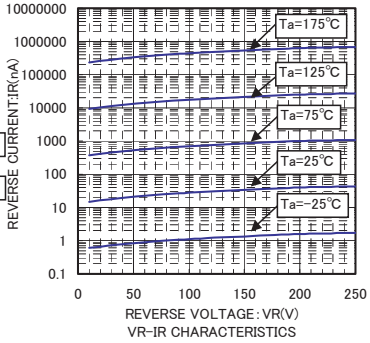
●**Electrical characteristics** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.5	V	I_F=200mA
Reverse current	I_R	-	-	10	μA	V_R=220V
Capacitance between terminals	Ct	-	-	3.0	pF	V_R=0V , f=1MHz
Reverse recovery time	Trr	-	-	75	ns	I_R=20mA,I_F=20mA,RL=50Ω

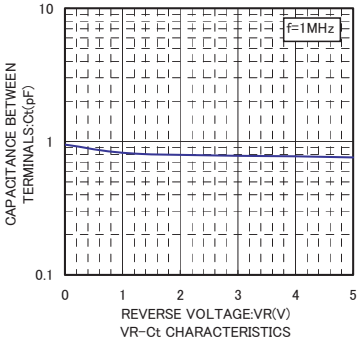
●Electrical characteristic curves (Ta=25°C)



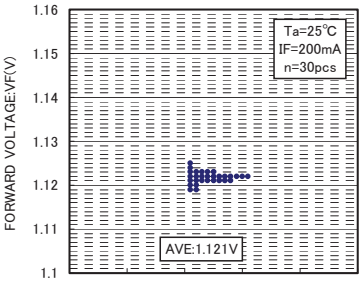
VF-IF CHARACTERISTICS



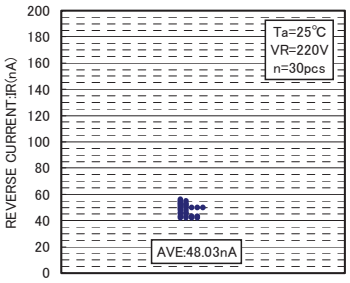
VR-IR CHARACTERISTICS



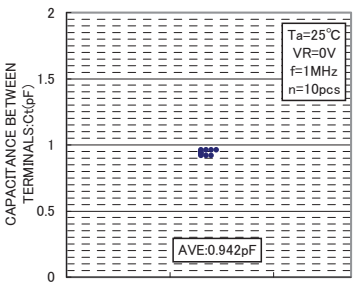
VR-Ct CHARACTERISTICS



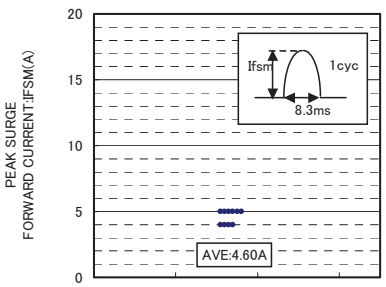
VF DISPERSION MAP



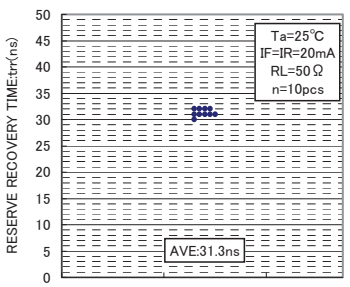
IR DISPERSION MAP



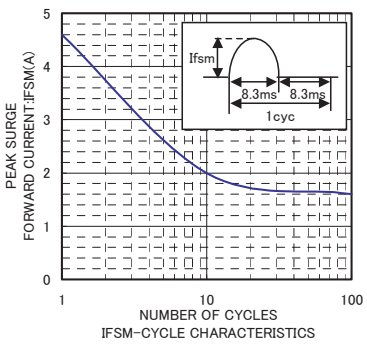
Ct DISPERSION MAP



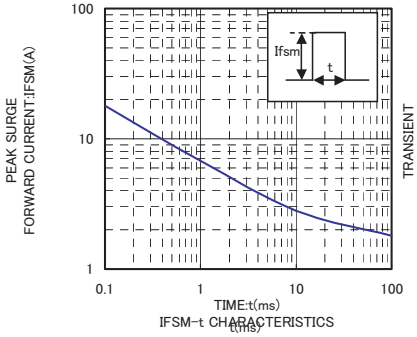
IFSM DISRESION MAP



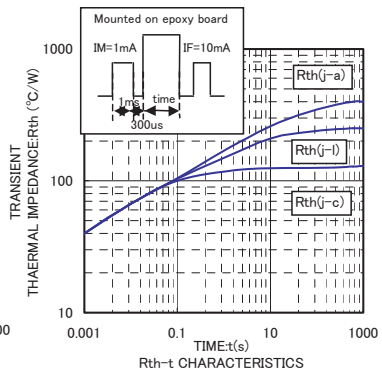
trr DISPERSION MAP



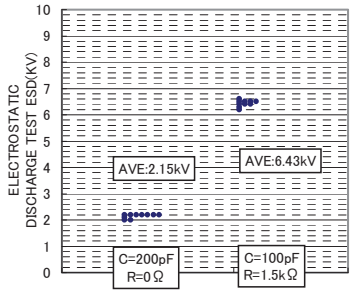
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



ESD DISPERSION MAP

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