ESD Protection diode

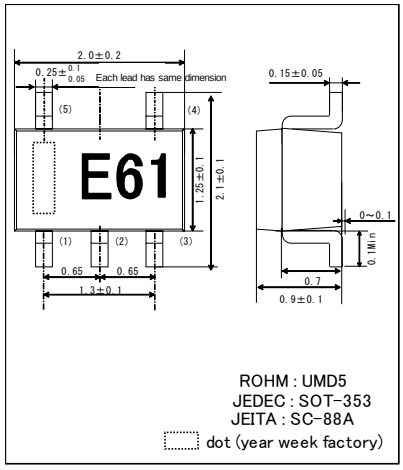
RSA6.1EN

●**Application**
ESD Protection

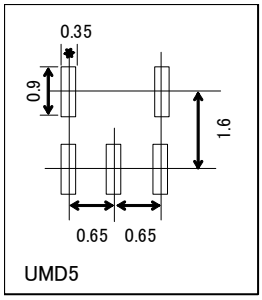
●**Features**
1) Small mold type. (UMD5)
2) High reliability.

●**Construction**
Silicon epitaxial planar

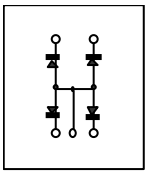
●**External dimensions** (Unit : mm)



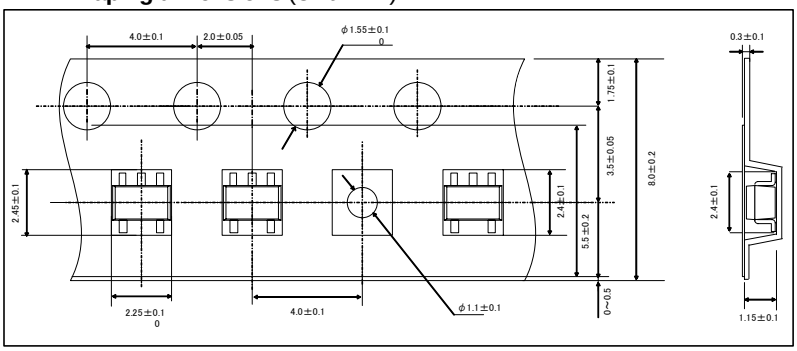
●**Lead size figure** (Unit : mm)



●**Structure**



●**Taping dimensions** (Unit : mm)



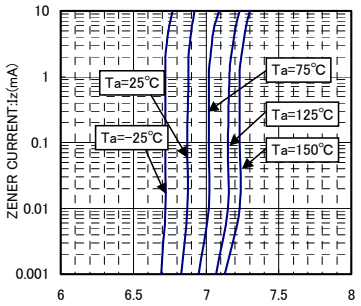
●**Absolute maximum ratings** (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power dissipation	P	200	mW
Peak Pulse Power-1(tp=10×1000us)	P_{pk}	30	W
Peak Pulse Power-2(tp=8×20us)	P_{pk}	200	W
Junction temperature	Tj	150	℃
Storage temperature	Tstg	-55 to +150	℃

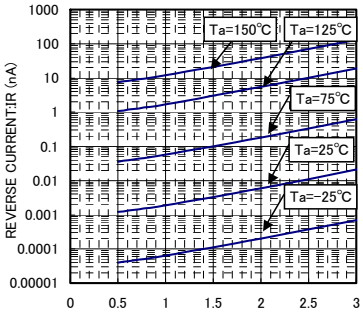
●**Electrical characteristics** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V_Z	6.1	-	7.20	V	I_Z=1mA
Reverse current	I_R	-	-	1.0	μA	V_R=3.0V
Forward voltage	V_F	-	-	1.25	V	I_F=200mA
Capacitance between terminals	C_t	-	90	-	pF	f=1MHz,V_R=0V

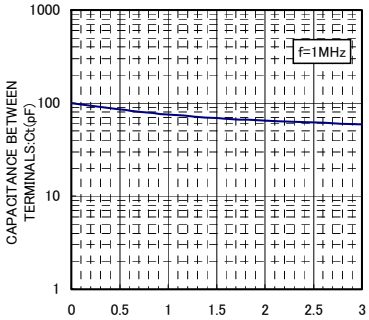
●**Electrical characteristic curves** (Ta=25°C)



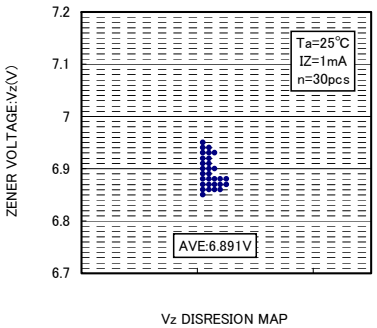
Vz–Iz CHARACTERISTICS



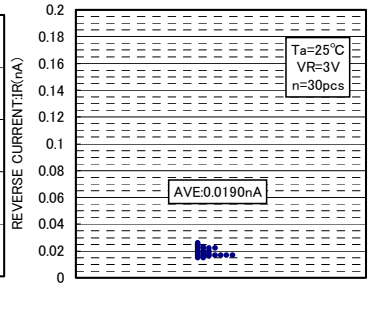
VR–IR CHARACTERISTICS



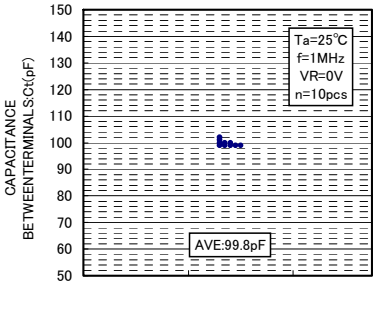
VR–Ct CHARACTERISTICS



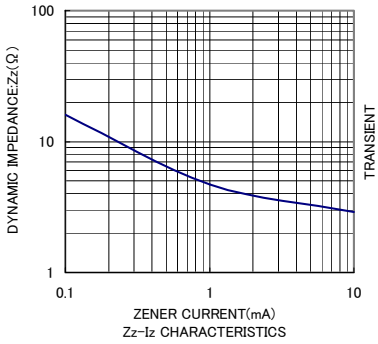
Vz DISRESION MAP



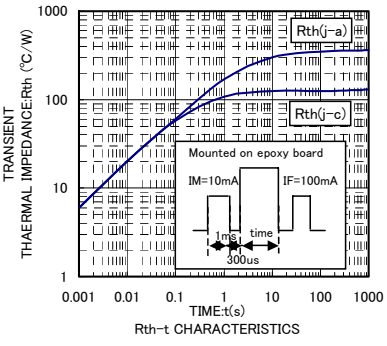
IR DISRESION MAP



Ct DISRESION MAP



Zz–Iz CHARACTERISTICS



Rth–t CHARACTERISTICS

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