

Bi direction ESD Protection Diode

RSB39V

●Applications

ESD Protection

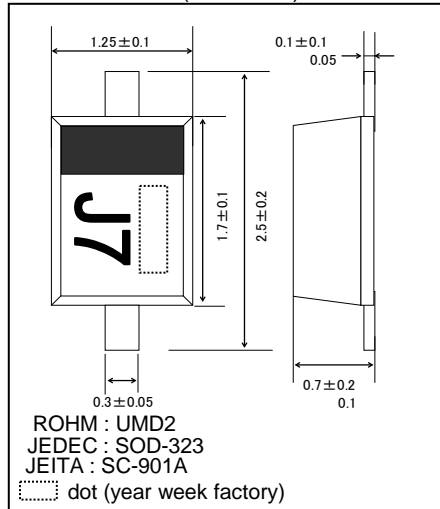
●Features

- 1) Small mold type. (UMD2)
- 2) High reliability.
- 3) Bi-directionality.

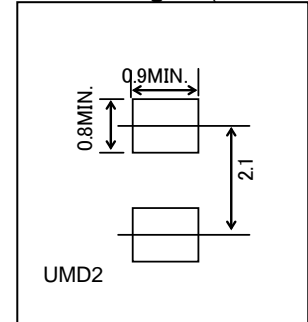
●Constructions

Silicon epitaxial planer

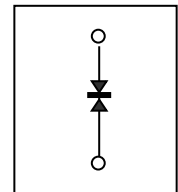
●Dimensions (Unit : mm)



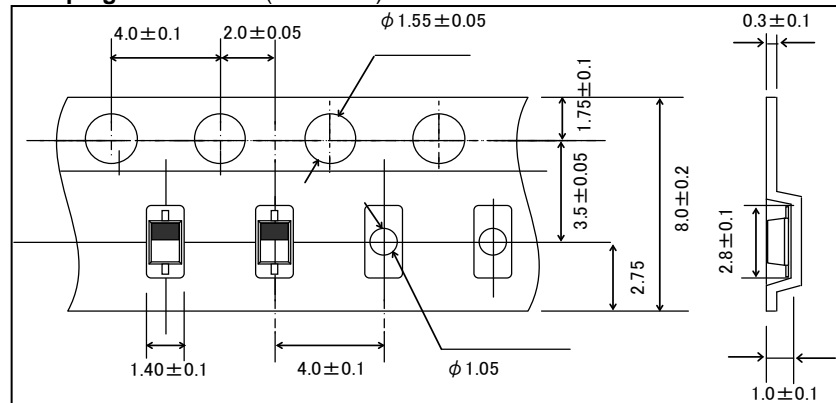
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



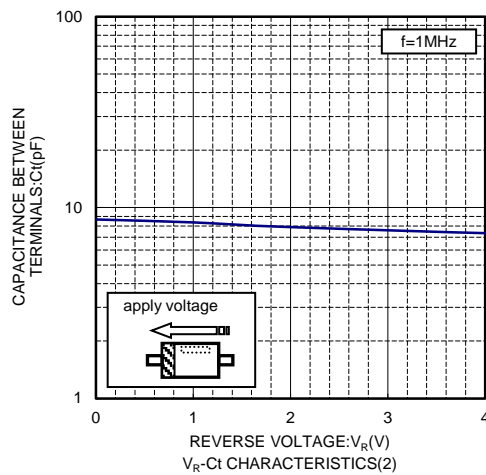
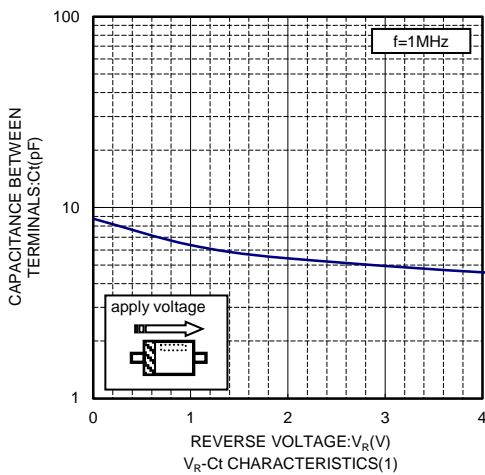
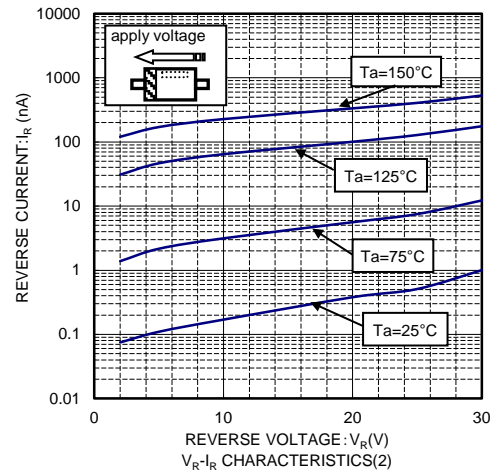
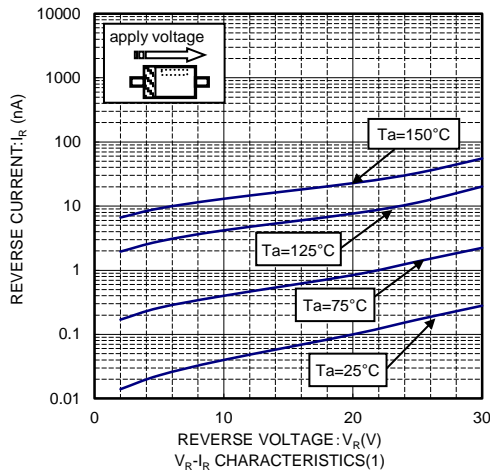
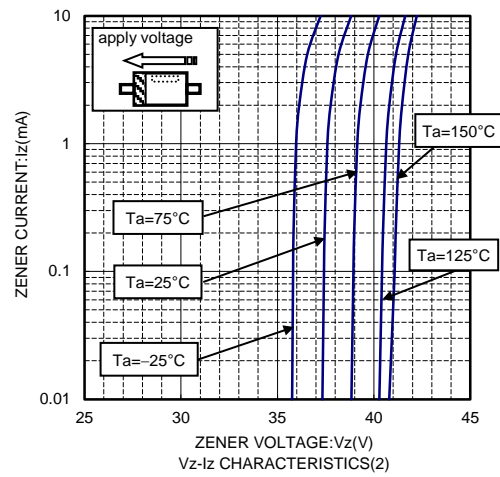
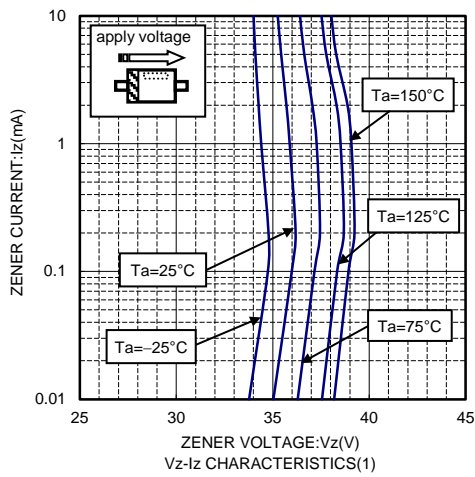
●Absolute maximum ratings (Ta=25°C)

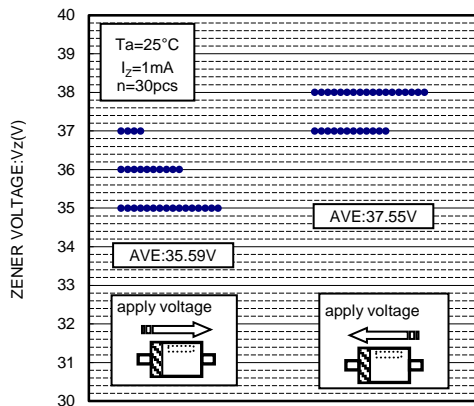
Parameter	Symbol	Limits	Unit
Power dissipation	Pd	200	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

●Electrical characteristics (Ta=25°C)

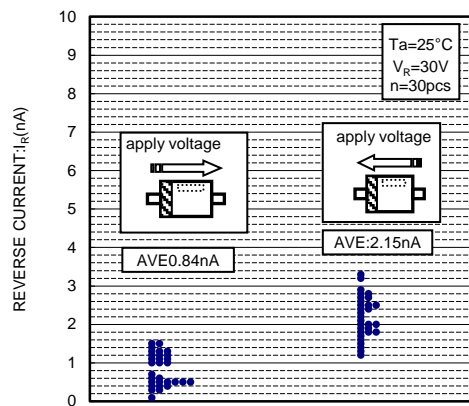
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	Vz	35.1	-	42.9	V	Iz=1mA
Reverse current	IR	-	-	0.1	μA	VR=30V
Junction capacitance	Ct	-	-	30	pF	VR=0V, f=1MHz

*Zener voltage (Vz) shall be measured at 40ms after loading current.

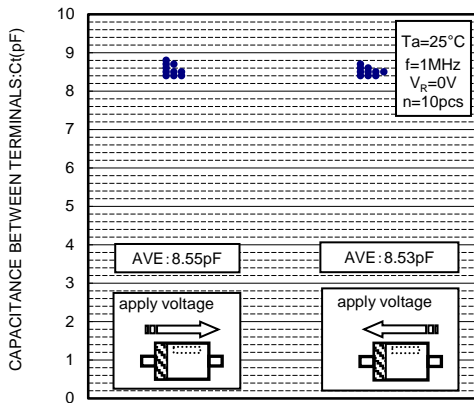




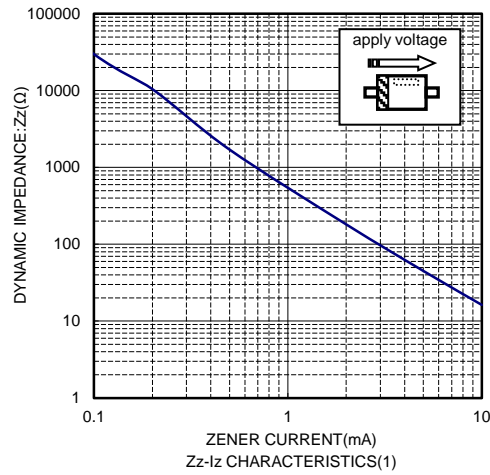
Z_v DISPERSION MAP



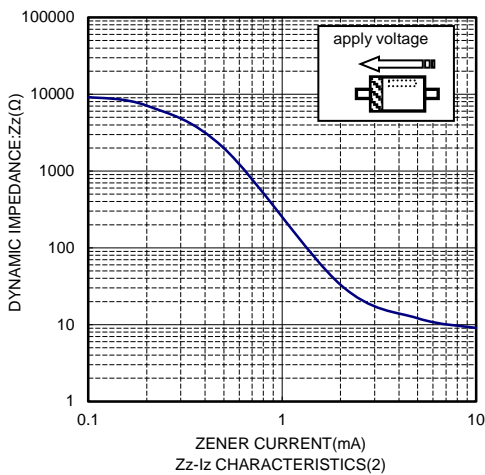
I_r DISPERSION MAP



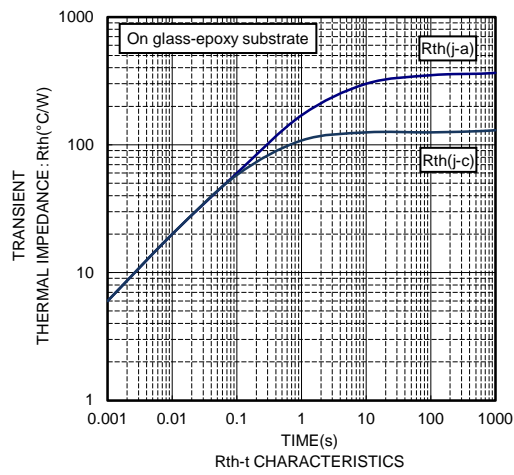
C_t DISPERSION MAP



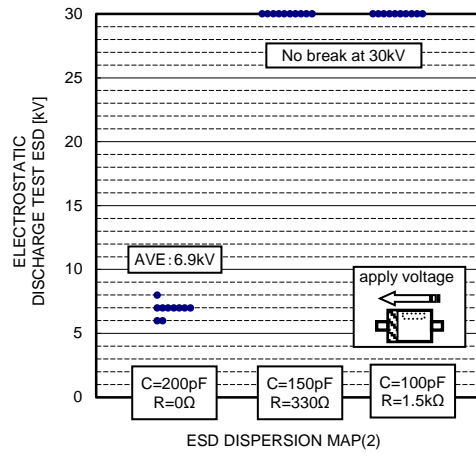
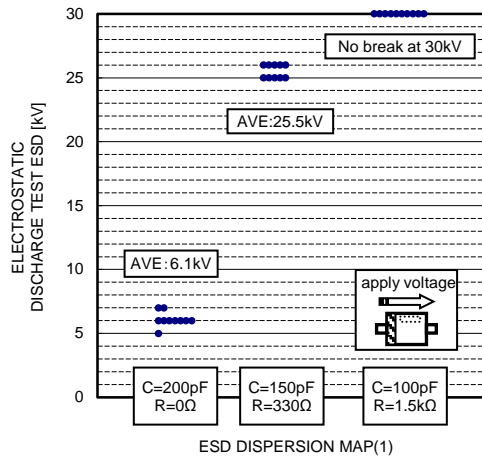
Z_z-I_z CHARACTERISTICS(1)



Z_z-I_z CHARACTERISTICS(2)



R_{th}-t CHARACTERISTICS



Notes

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