Bi direction ESD Protection Diode

RSB5.6SM

●Applications

ESD Protection

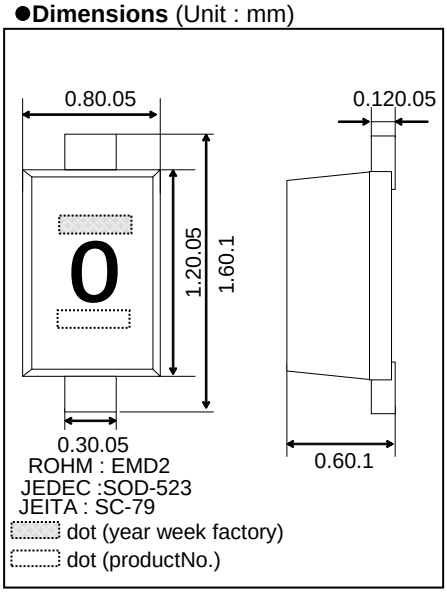
●Features

1)Ultra small mold type. (EMD2)
2)Bi direction high reliability.
3)High reliability.
4)By chip-mounter,automatic mounting is possible.

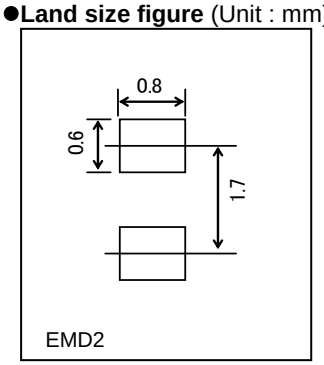
●Construction

Silicon epitaxial planar

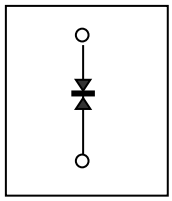
●Dimensions (Unit : mm)



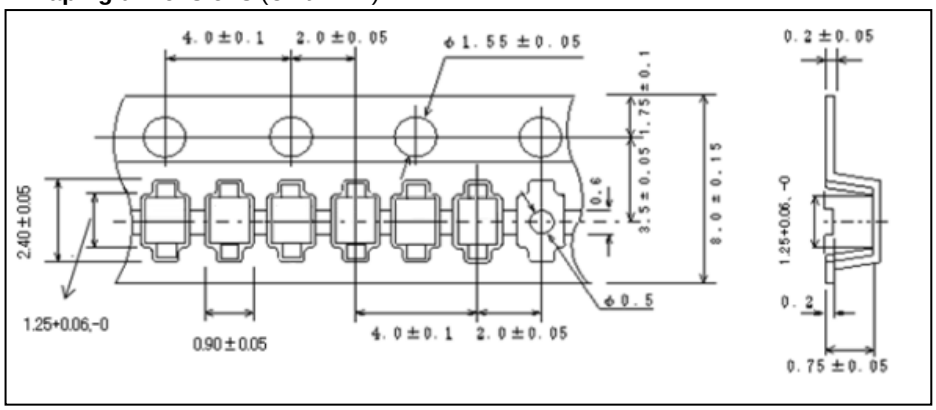
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



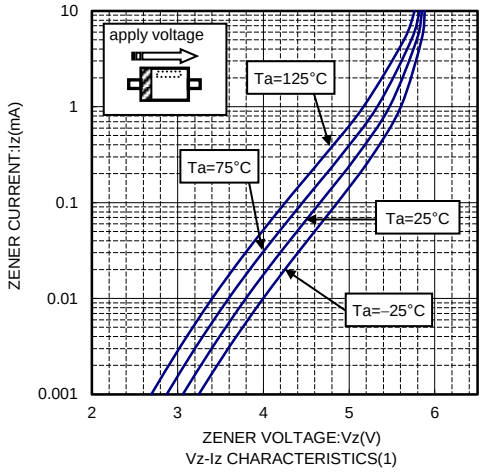
●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Peak pulse power(tp=10×1000μs)	Ppk	10	W
Power dissipation	P	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	−55 to +150	°C
Operation temperature range	Topor	−55 to +150	°C

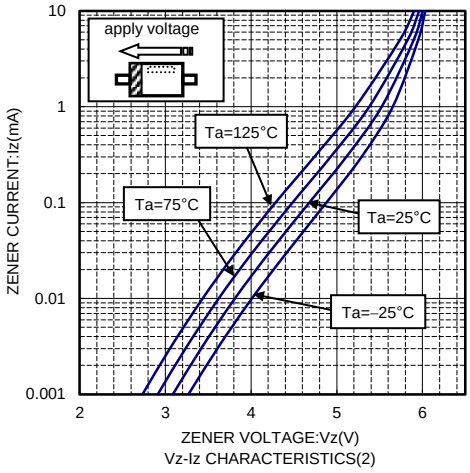
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V_z	4.76	-	6.44	V	I_Z=1mA
Reverse current	I_R	-	-	1.0	μA	V_R=2.5V
Capacitance between terminals	Ct	-	50.0	-	pF	V_R=0V , f=1MHz

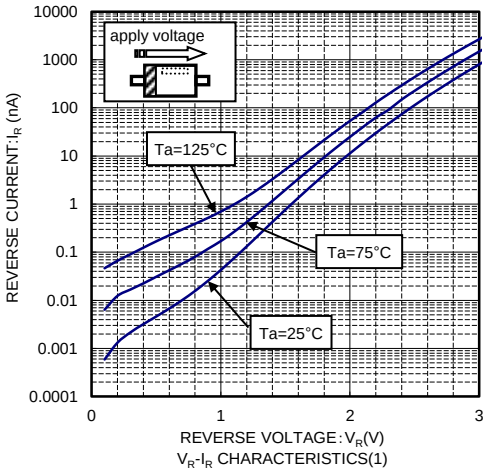
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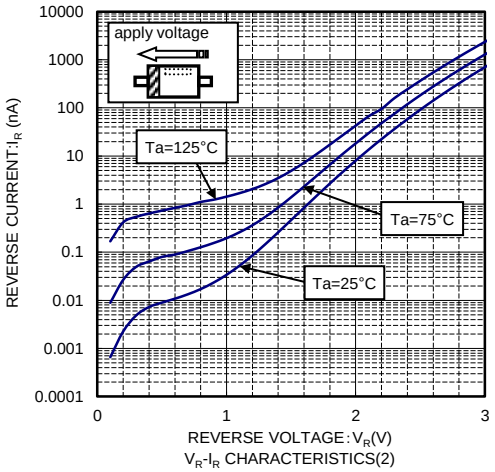
Vz-Iz CHARACTERISTICS(1)



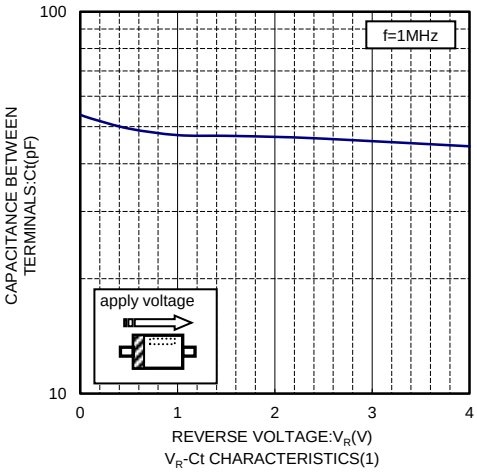
Vz-Iz CHARACTERISTICS(2)



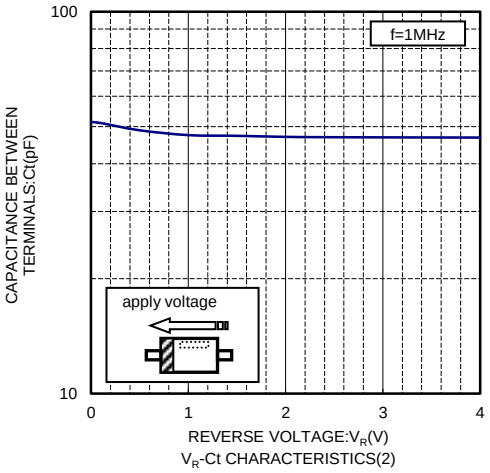
V_R-I_R CHARACTERISTICS(1)



V_R-I_R CHARACTERISTICS(2)

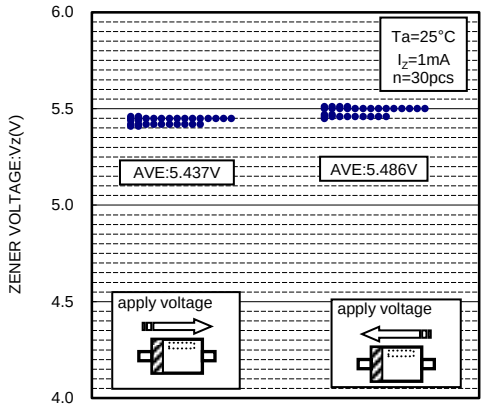


V_R-Ct CHARACTERISTICS(1)

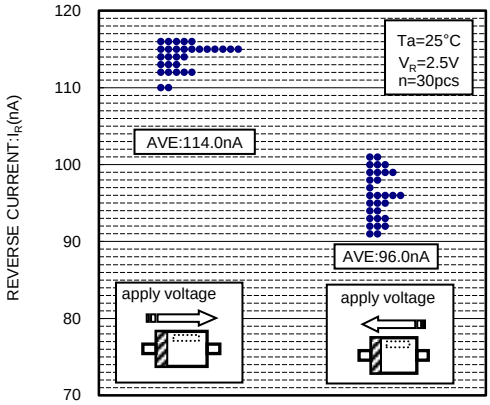


V_R-Ct CHARACTERISTICS(2)

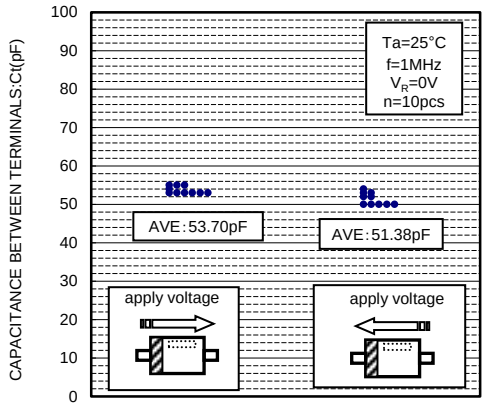
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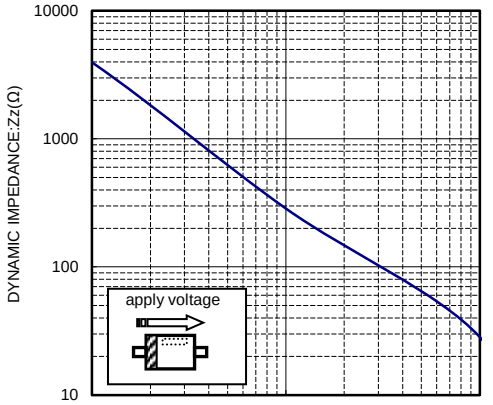
Vz DISPERSION MAP



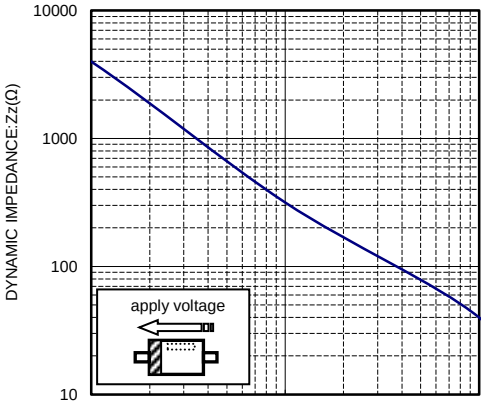
I_R DISPERSION MAP



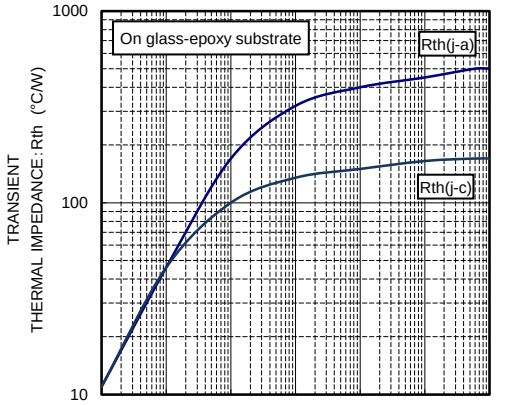
Ct DISPERSION MAP



Zz-Iz CHARACTERISTICS(1)

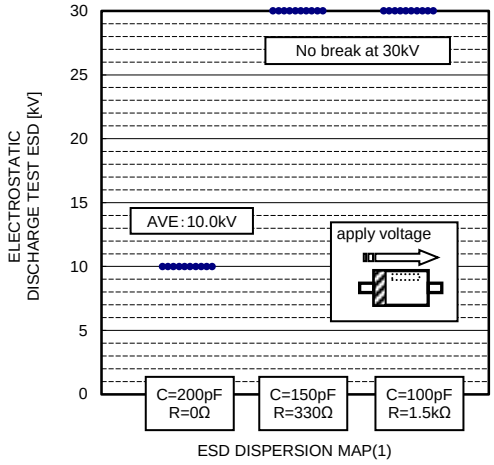


Zz-Iz CHARACTERISTICS(2)

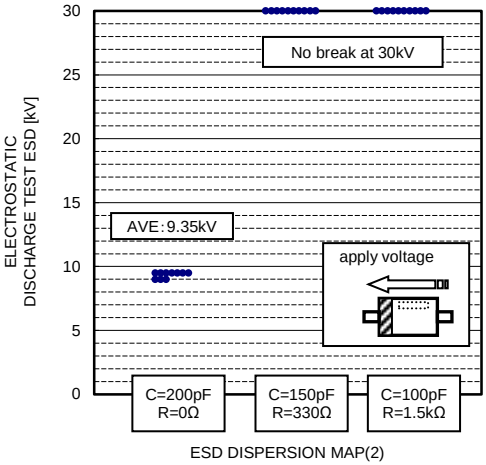


Rth-t CHARACTERISTICS

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ESD DISPERSION MAP(1)



ESD DISPERSION MAP(2)

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