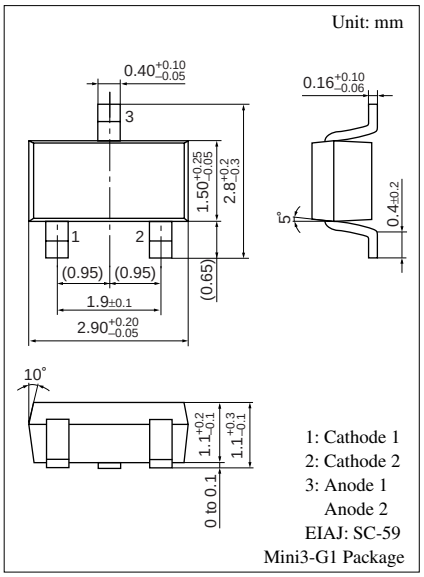
MAZC062D

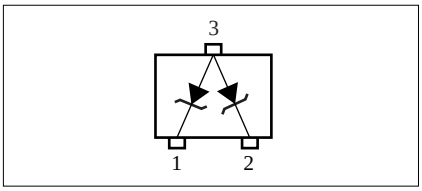
Silicon planar type

For surge absorption circuit



Marking Symbol: 6.2C

Internal Connection



■ Features

- Mini type 3-pin package(Mini3-G1)
- Low joint capacity zener diode (V_Z = 6.2 V)
- Two anode-common element wiring

■ Absolute Maximum Ratings T_a = 25°C

Parameter	Symbol	Rating	Unit
Repetitive peak forward current	I_{FRM}	200	mA
Total power dissipation*	P_{tot}	200	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	−55 to +150	°C

Note) ∗: With a printed circuit board

■ Electrical Characteristics T_a = 25°C*1

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F = 10 mA		0.9	1.0	V
Zener voltage*2	V_Z	I_Z = 5 mA	5.9		6.5	V
Zener knee operating resistance	R_{ZK}	I_Z = 0.5 mA			100	Ω
Zener operating resistance	R_Z	I_Z = 5 mA			30	Ω
Reverse current	I_R	V_R = 5.5 V			3	μA
Terminal capacitance	C_t	V_R = 0 V, f = 1 MHz		8		pF

Note) 1. Rated input/output frequency: 5 MHz

2. Test method according to the JIS C7031 testing

3. Electrostatic discharge is ±15 kV

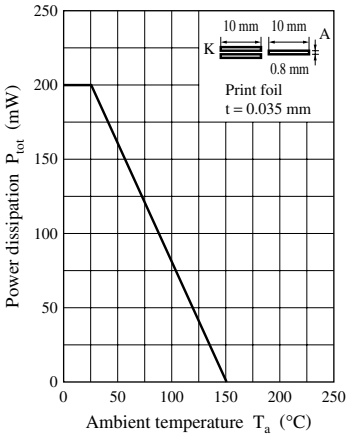
Test method: IEC-801 (C = 150 pF, R = 330 Ω, Contact discharge: 10 times)

Test unit: ESS-200AX

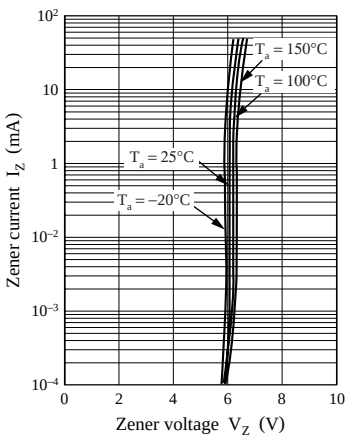
4. ∗1: The V_Z value is for the temperature of 25°C. In other cases, carry out the temperature compensation.

∗2: Guaranteed at 20 ms after power application.

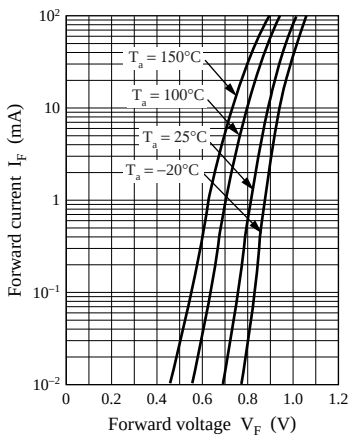
P_{tot} — T_a



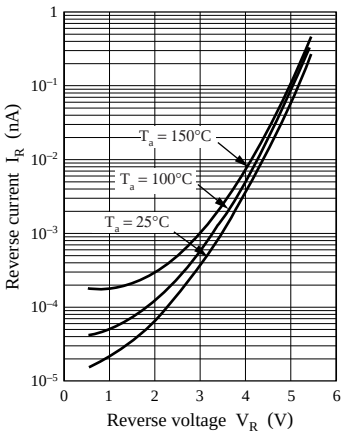
I_Z — V_Z



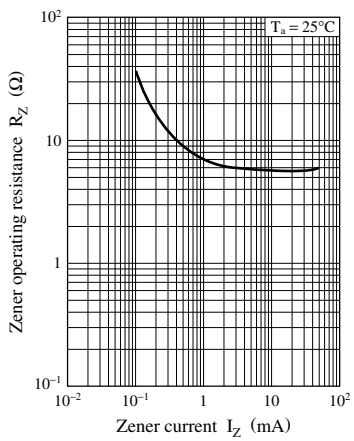
I_F — V_F



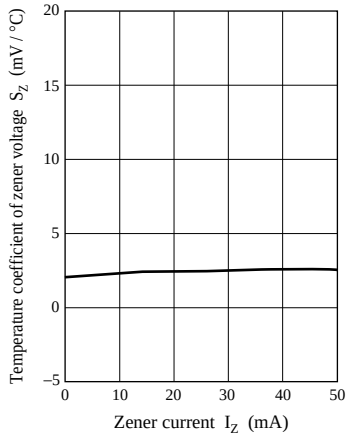
I_R — V_R



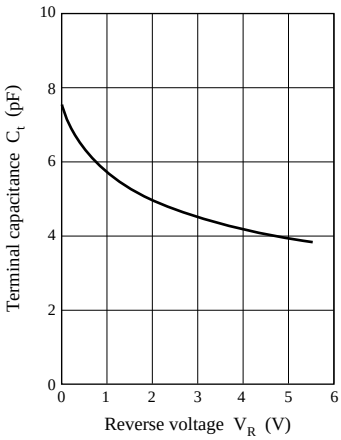
R_Z — I_Z



S_Z — I_Z



C_t — V_R



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