



Zener Diode
DE2704300L

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Silicon epitaxial planar type

For ESD protection
DE2S043 in SSSMini2 type package

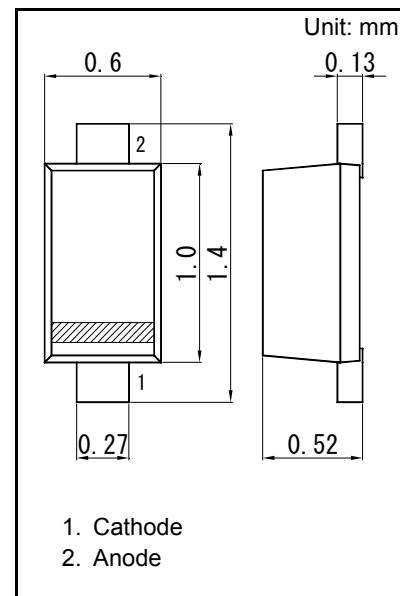
■ Features

- High ESD
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 9C

■ Packaging

Embossed type (Thermo-compression sealing) 10 000 pcs / reel (standard)



Panasonic	SSSSmini2-F4-B
JEITA	SC-104A
Code	SOD-723

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

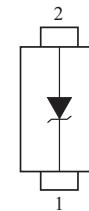
Parameter	Symbol	Rating	Unit
Total power dissipation ^{*1}	PT	120	mW
Electrostatic discharge ^{*2}	ESD	± 30	kV
Junction temperature	T _j	150	°C
Operating ambient temperature	T _{opr}	-40 to +85	°C
Storage temperature	T _{stg}	-55 to +150	°C

Note) *1: Mounted on glass epoxy print board. (45 mm x 45 mm x 1 mm)

Solder in (0.4 mm x 0.3 mm)

*2: Test method:IEC61000_4_2(C = 150 pF, R = 330 Ω, Contact discharge:10 times)

Internal Connection



■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Zener voltage ^{*1,2}	V _Z	I _Z = 1 mA	4.09		4.52	V
Reverse current	I _R	V _R = 1 V			10.0	μA
Terminal capacitance	C _t	V _R = 0V, f = 1 MHz		91		pF
Temperature coefficient of zener voltage ^{*3}	S _Z	I _Z = 1 mA		-2.1		mV/°C

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.

2. *1: The temperature must be controlled 25°C for V_Z measurement.

V_Z value measured at other temperature must be adjusted to V_Z (25°C)

*2: V_Z guaranteed 20 ms after current flow.

*3: T_j = 25°C to 150°C

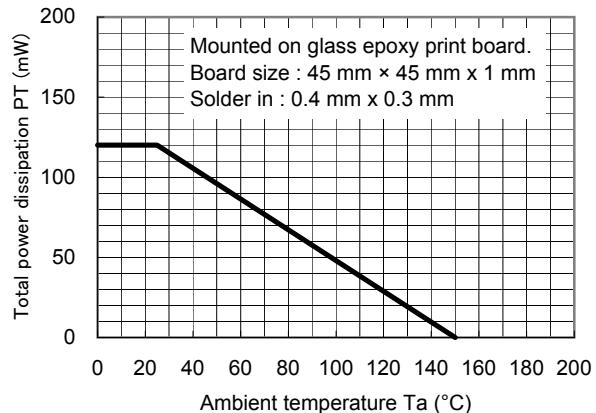
Panasonic

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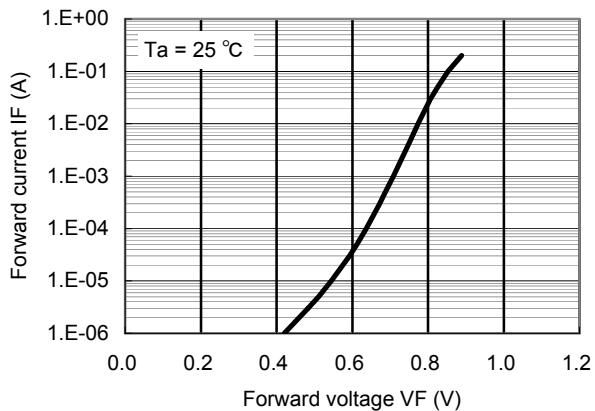
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Technical Data (reference)

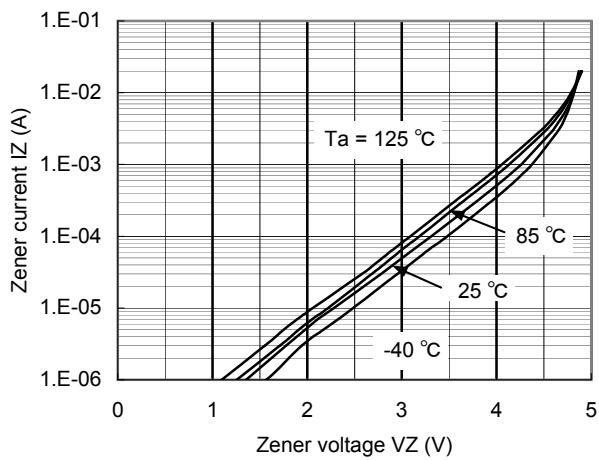
PT - Ta



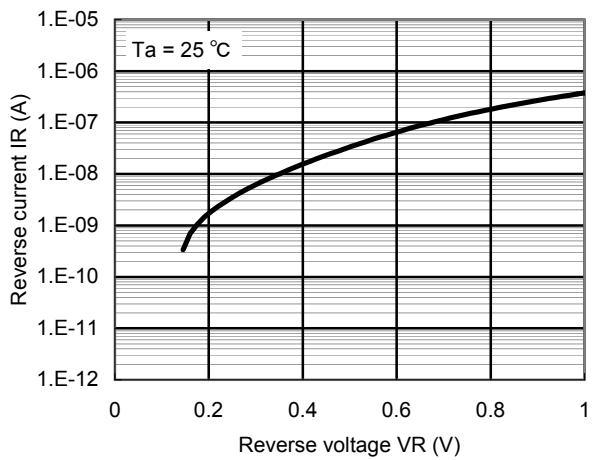
IF - VF



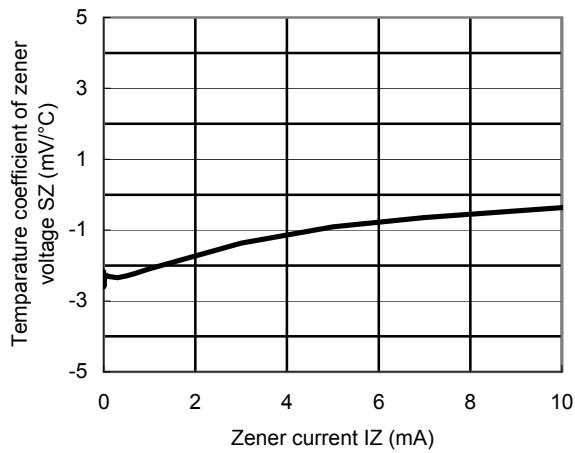
IZ - VZ



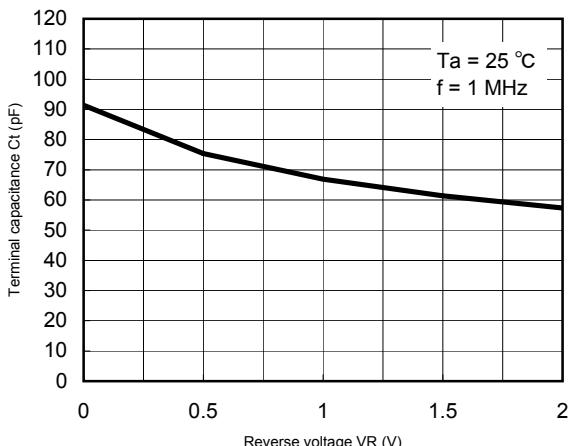
IR - VR



SZ - IZ



Ct - VR

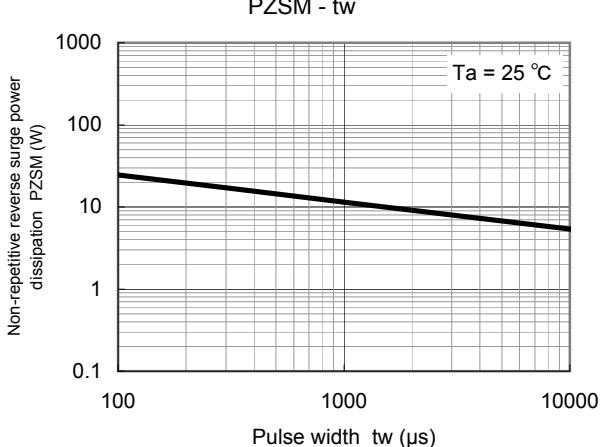
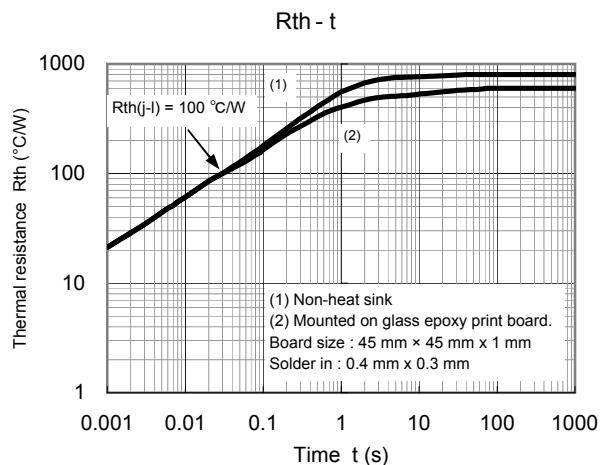


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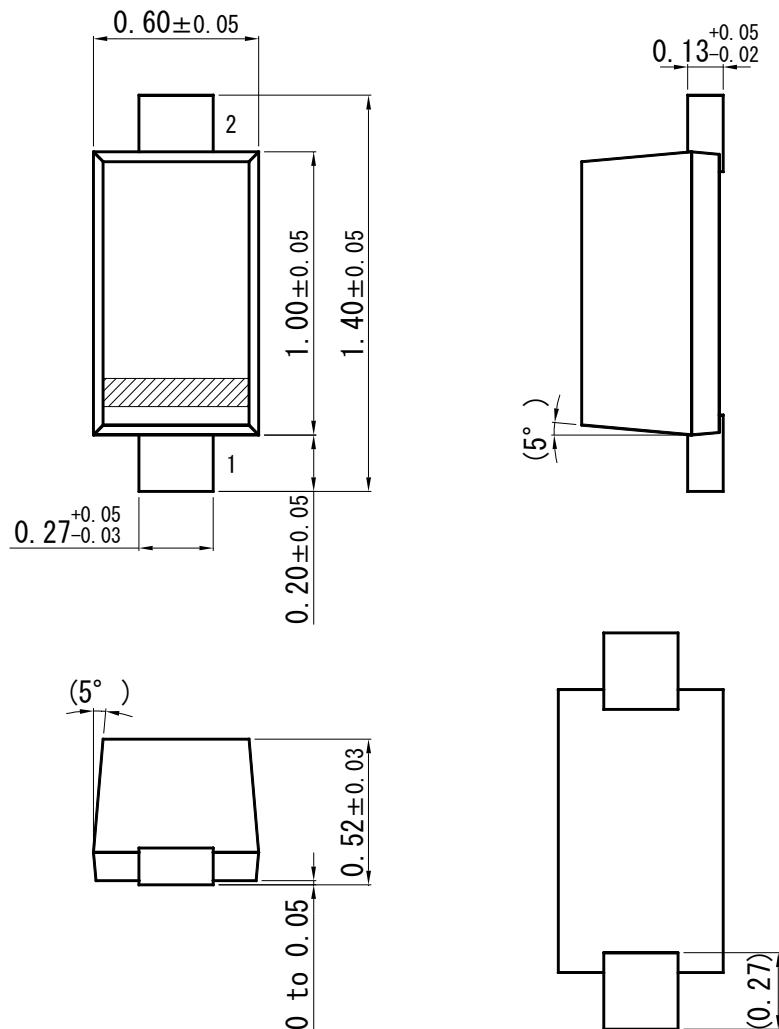
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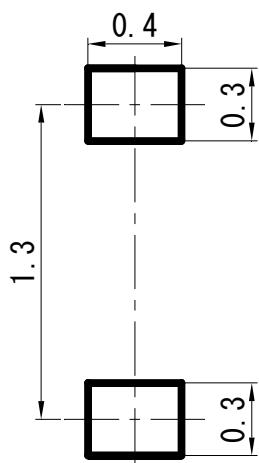
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SSSMini2-F4-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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