



DZ2S056×0L

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Silicon epitaxial planar type

For constant voltage / For surge absorption circuit
DZ2J056 in SSMini2 type package

■ Features

- Excellent rising characteristics of zener current I_z
- Low zener operating resistance R_z
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: DJ or DU

■ Packaging

Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

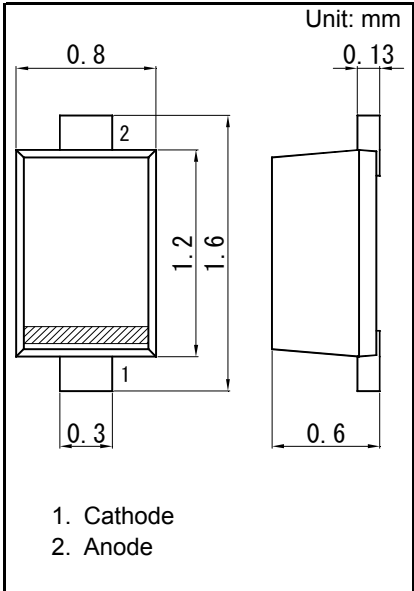
Parameter	Symbol	Rating	Unit
Repetitive peak forward current	IFRM	200	mA
Total power dissipation ^{*1}	PT	150	mW
Electrostatic discharge ^{*2}	ESD	±15	kV
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

Note) ^{*1} Mounted on glass epoxy print board (45 mm × 45 mm × 1 mm)

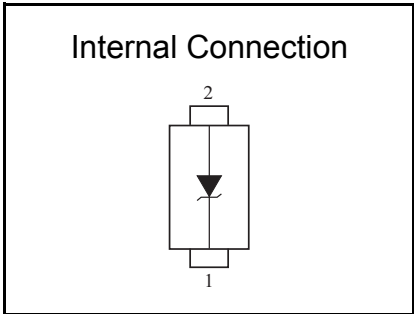
Solder in (0.8 mm × 0.6 mm)

^{*2} Test method : IEC61000_4_2

(C = 150 pF, R = 330 Ω, Contact discharge : 10 times)



Panasonic	SSMini2-F5-B
JEITA	SC-79
Code	SOD-523



■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 10 mA			1.0	V
Zener voltage ^{*1, *2}	VZ	IZ = 5 mA	5.32		5.88	V
Zener operating resistance	RZ	IZ = 5 mA			40	Ω
Zener rise operating resistance	RZK	IZ = 0.5 mA			200	Ω
Reverse current	IR	VR = 2.5 V			0.5	μA
Temperature coefficient of zener voltage ^{*3}	SZ	IZ = 5 mA		1.6		mV/°C

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

2. Absolute frequency of input and output is 5 MHz.

3. ^{*1} The temperature must be controlled 25 °C for VZ measurement.

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

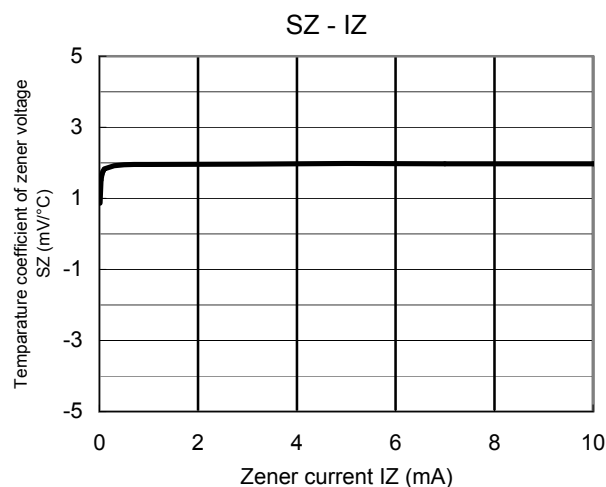
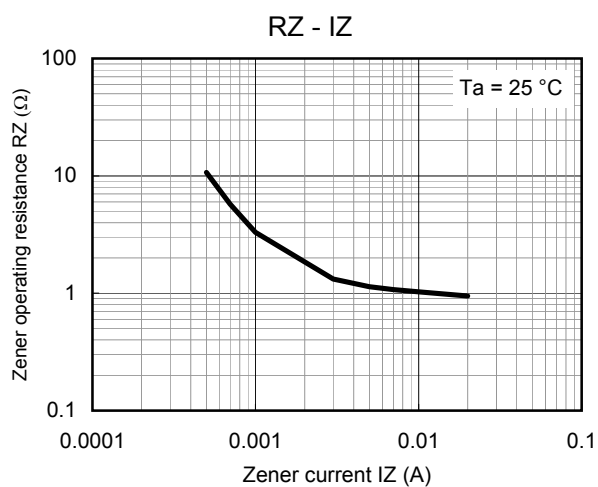
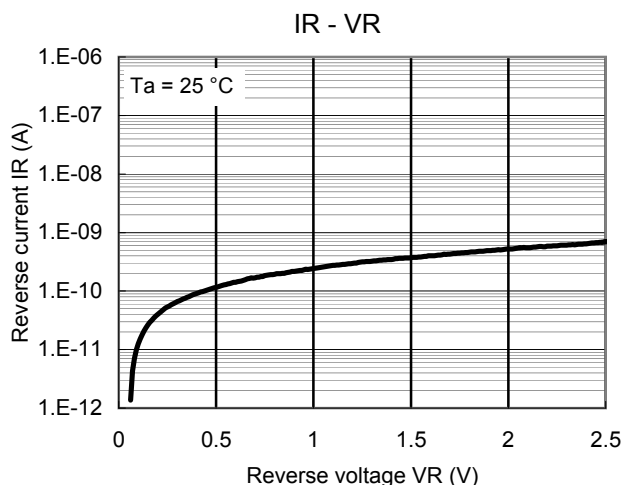
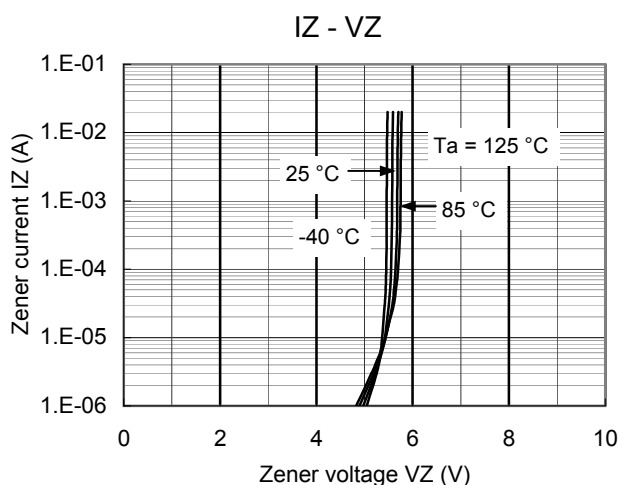
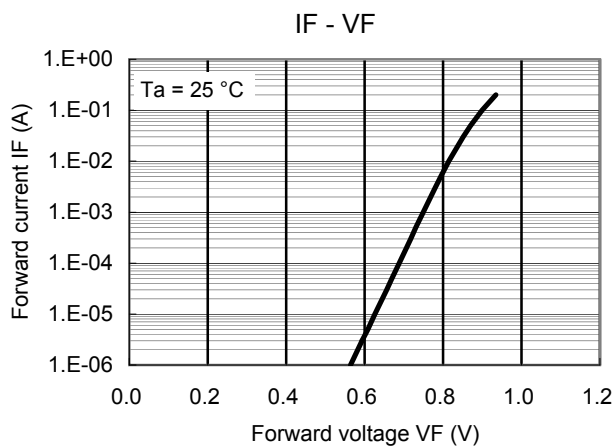
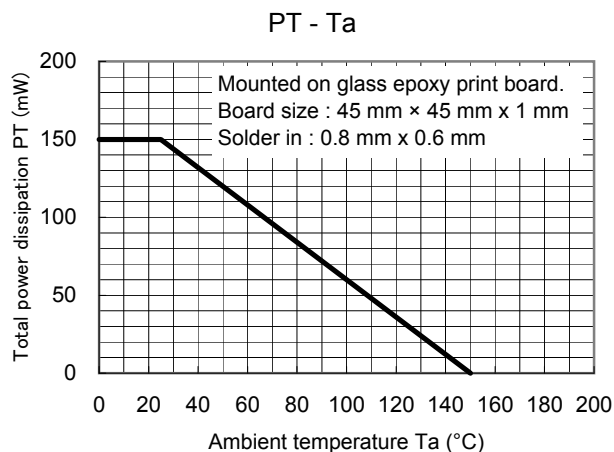
^{*2} VZ guaranted 20 ms after current flow

^{*3} Tj = 25 °C to 150 °C

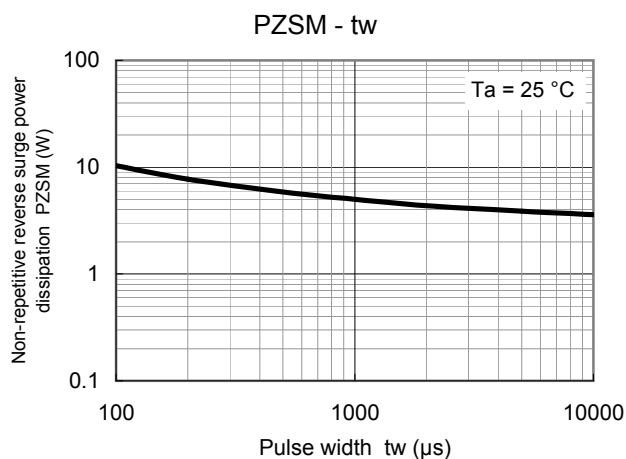
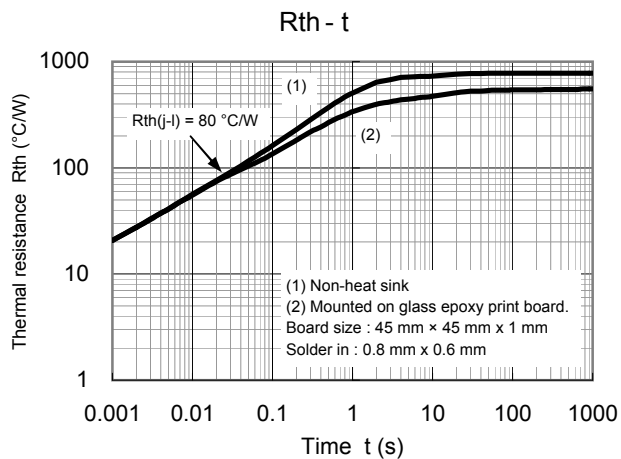
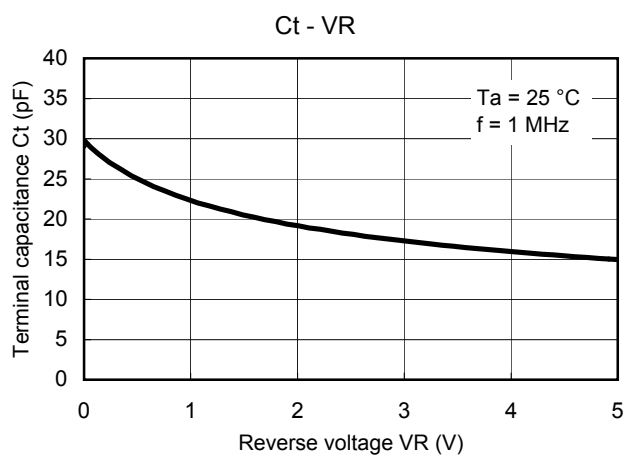
Rank classification

Code	M	0
Rank	M	No-rank
VZ	5.48 to 5.76	5.32 to 5.88
Marking symbol	DU	DJ

Technical Data (reference)

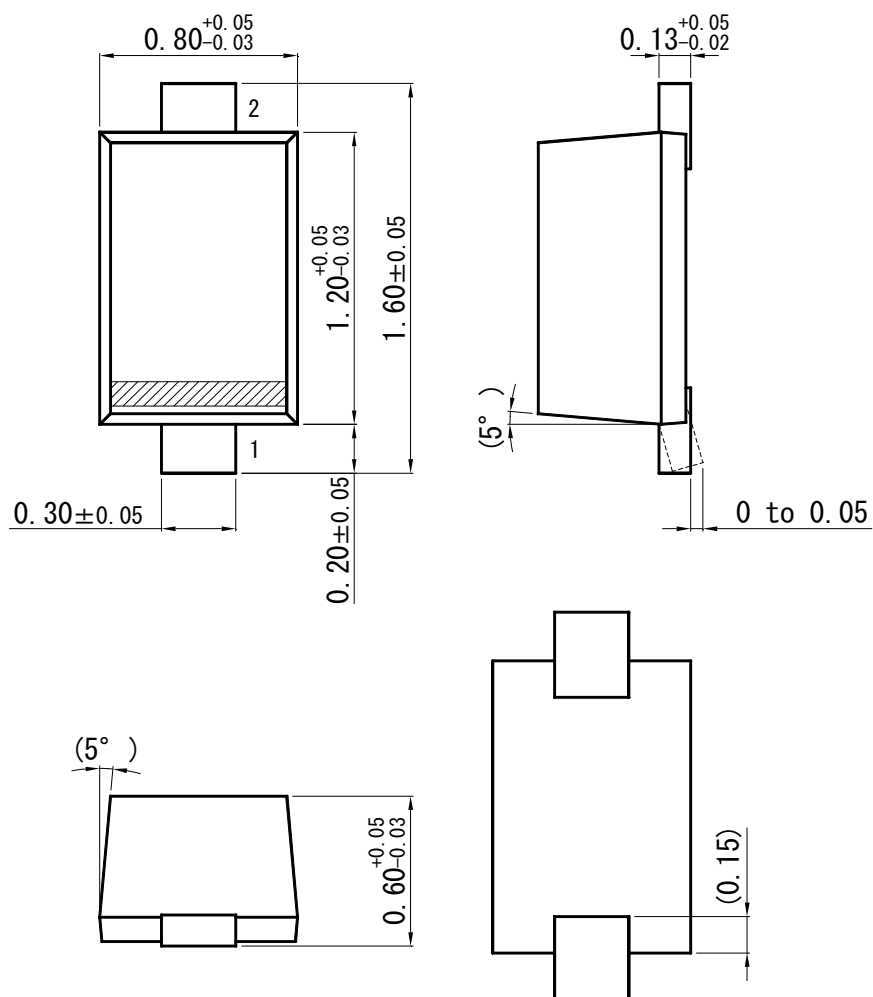


Technical Data (reference)

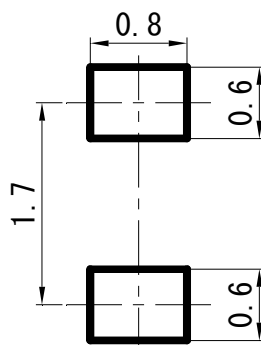


SSMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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