

# DY2J25000L

## Silicon epitaxial planar type

For high surge protection  
 Capability of withstanding a high surge type

### ■ Features

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

### ■ Marking Symbol: 25

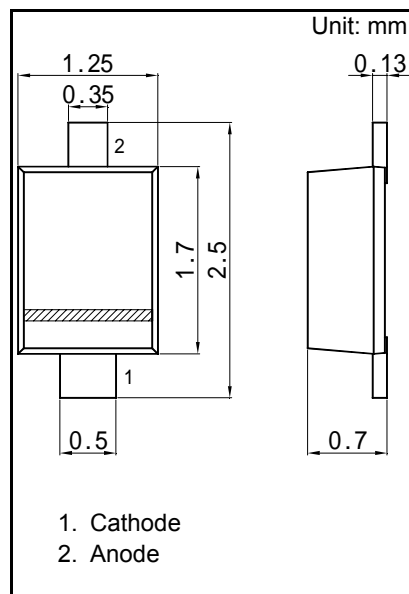
### ■ Packaging

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

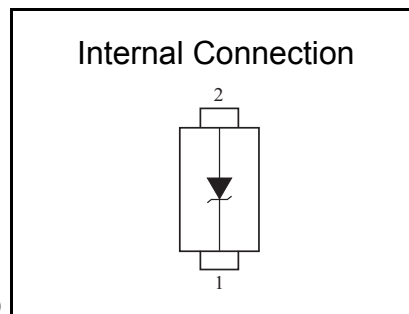
### ■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Peak pulse power*1	Ppp	450	W
Peak pulse current*1	Ipp	9	A
Maximum peak reverse voltage	VRM	18	V
Total power dissipation*2	PT	200	mW
Electrostatic discharge*3	ESD	±30	kV
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

Note) \*1: Test method : IEC61000-4-5 ( tp = 8/20ms, Unrepeated )  
 \*2: Mounted on glass epoxy print board. ( 45 mm x 45 mm x 1 mm )  
 Solder in ( Recommended land pattern )  
 \*3: Test method:IEC61000\_4\_2(C = 150 pF,R = 330 Ω, Contact discharge:10 times)



Panasonic	SMini2-F5-B
JEITA	SC-90A
Code	—

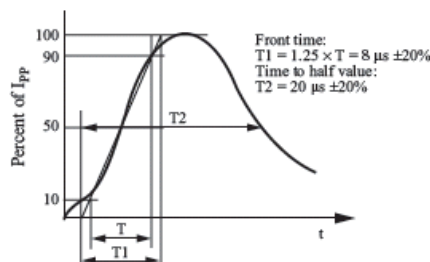


### ■ Electrical Characteristics Ta = 25 °C ± 3 °C

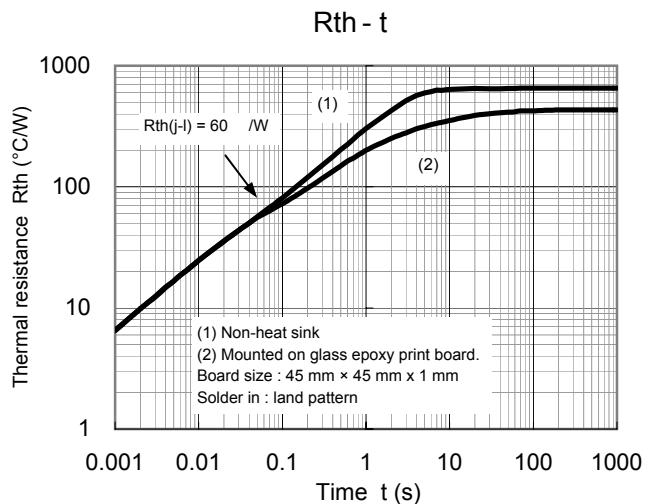
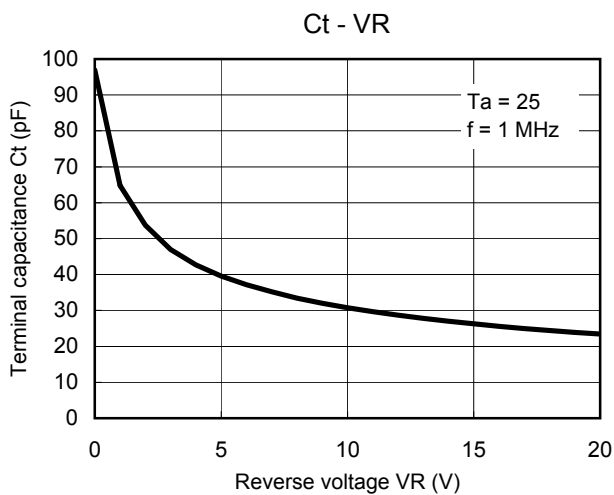
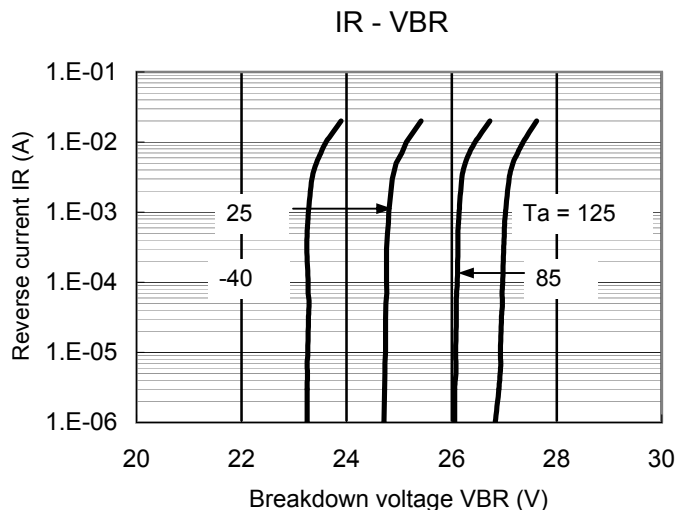
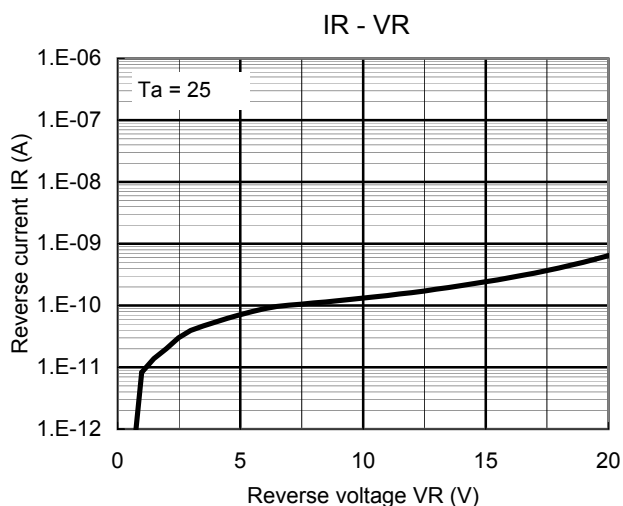
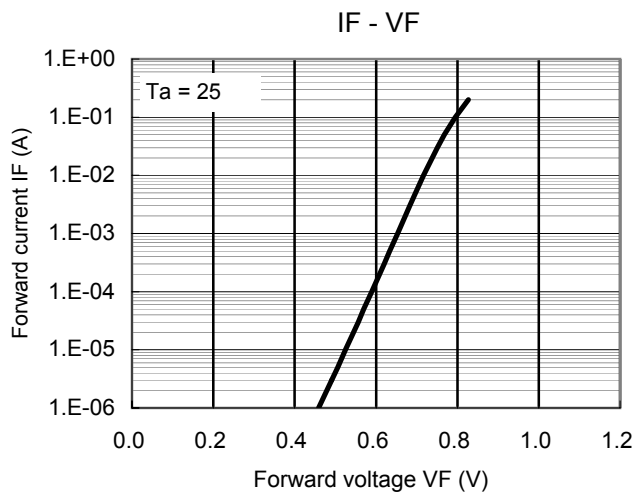
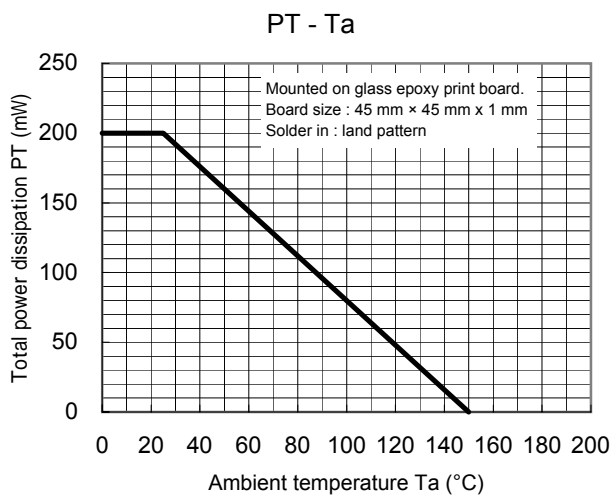
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Breakdown voltage*1	VBR	IR = 1 mA	22.50	25.00	27.50	V
Reverse current	IR	VR = 18.0 V			10.0	μA
Clamping voltage*2	VC	IPP = 9.0 A, tp = 8/20 μs			50.0	V
Terminal capacitance	Ct	VR = 0 V, f = 1 MHz		97.0		pF

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

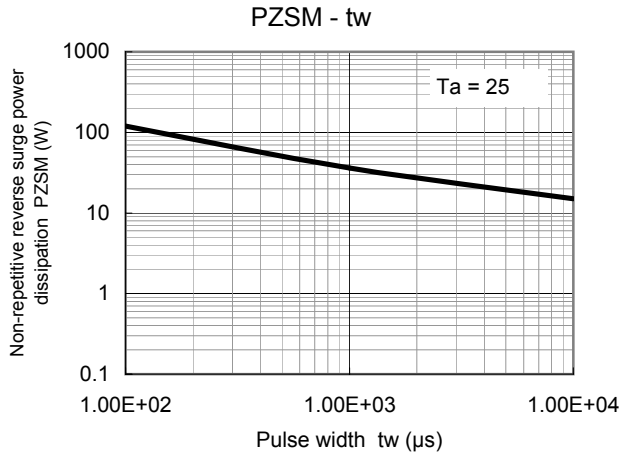
2. \*1: VBR guaranteed 20 ms after current flow.  
 \*2: Pulse Waveform



Technical Data ( reference )

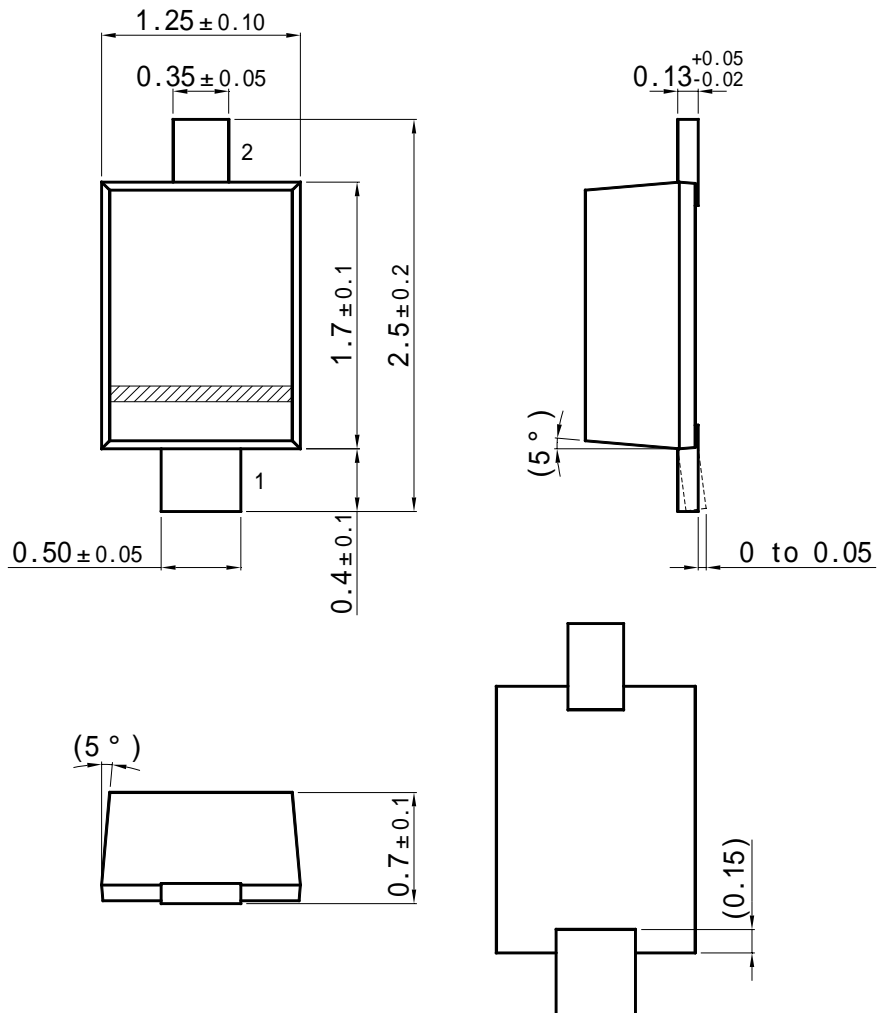


Technical Data ( reference )

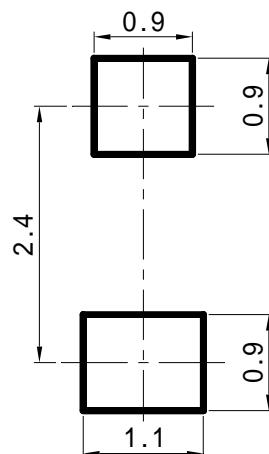


SMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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