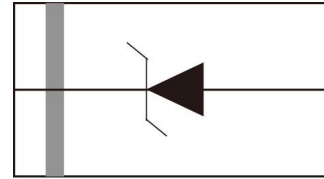


**Features**

- Standard zener breakdown voltage range 5.1V
- DFN1006-2 package
- Steady state power rating of 250mW
- ESD rating of class3(>16kV)per human body model
- RoHS compliant transient



**DFN1006-2**

**Mechanical Characteristics**

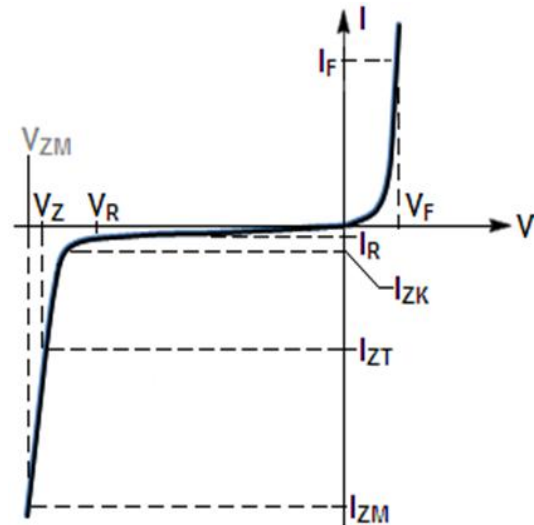
- Mounting position : Any
- Qualified max reflow temperature : 260°C
- Device meets MSL 1 requirements
- DFN1006-2 without plating

**Maximum Ratings & Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)**

Items	Symbol	Value	Unit
Typical thermal resistance, junction to ambient <sup>(1)</sup>	R <sub>θJA</sub>	625	°C / W
Junction temperature	T <sub>J</sub>	150	°C
Storage temperature range	T <sub>STG</sub>	-55 to +150	°C

**Electrical Characteristics**

Symbol	Parameter
V <sub>Z</sub>	Reverse Zener Voltage @ I <sub>ZT</sub>
I <sub>ZT</sub>	Zener (DC)current at specified test point
Z <sub>ZT</sub>	Maximum Zener Impedance @ I <sub>ZT</sub>
I <sub>ZK</sub>	Zener (DC)current near breakdown knee
Z <sub>ZK</sub>	Maximum Zener Impedance @ I <sub>ZK</sub>
I <sub>ZM</sub>	Maximum Zener current
V <sub>ZM</sub>	Maximum Zener voltage
P <sub>D</sub>	Maximum steady-state power dissipation(=I <sub>ZM</sub> ×V <sub>ZM</sub> )
I <sub>R</sub>	Reverse Leakage Current @ V <sub>R</sub>
V <sub>R</sub>	Reverse Voltage
I <sub>F</sub>	Forward Current
V <sub>F</sub>	Forward Voltage @ I <sub>F</sub>

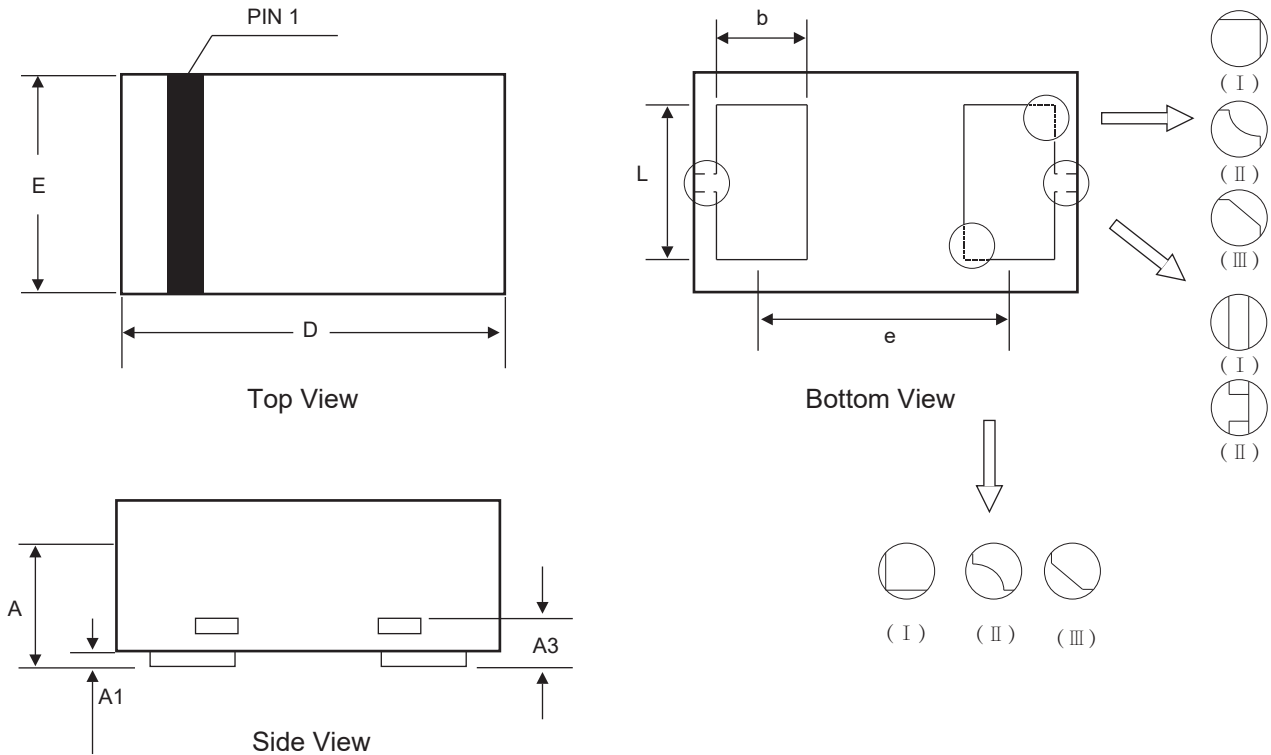


**Electrical Characteristics (T<sub>A</sub> = 25°C unless otherwise noted, V<sub>F</sub> = 0.9 V Max. @ I<sub>F</sub> = 10 mA for all types)**

DEVICE	Marking Code	Zener Voltage			Zener Impedance			Leakage Current		
		V <sub>Z</sub> (Volts)			@I <sub>ZT</sub>	Z <sub>ZT</sub> @I <sub>ZT</sub>	Z <sub>ZK</sub> @I <sub>ZK</sub>	I <sub>R</sub> @V <sub>R</sub>		
		Min	Nom	Max	mA	Ω	Ω	mA	μA	Volts
PZ04201P1	ZL	4.9	5.1		5	55	500	1	20	4.2

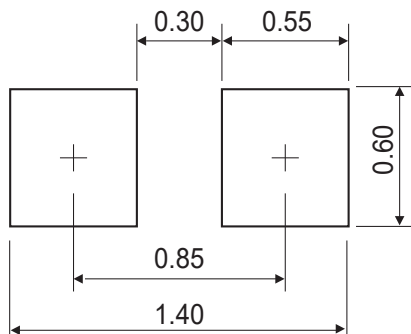
**PACKAGE OUTLINE DIMENSIONS**

**DFN1006-2**



Symbol	Dimensions in Millimeters		
	Min.	Typ.	Max.
A	0.340	0.450	0.530
A1	0.000	0.020	0.050
A3	0.125 Ref.		
D	0.950	1.000	1.075
E	0.550	0.600	0.675
b	0.200	0.250	0.300
L	0.450	0.500	0.550
e	0.650 BSC		

**Recommended PCB Layout (Unit: mm)**

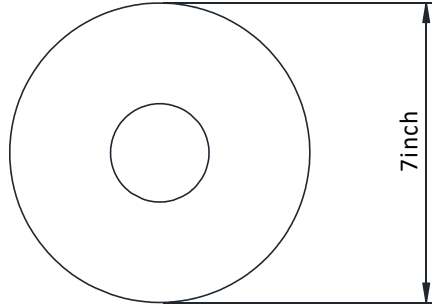


**Notes:**

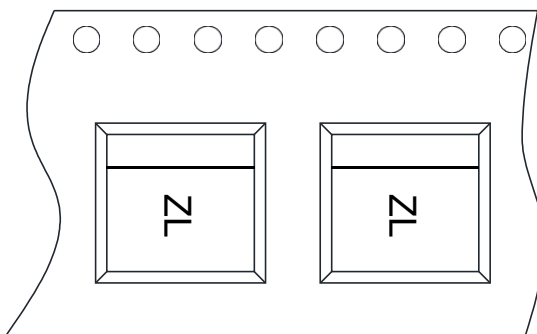
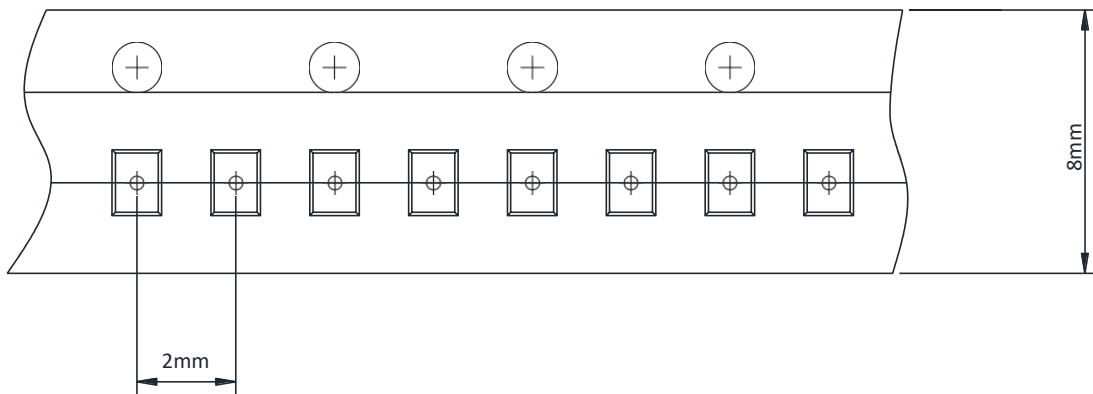
This recommended land pattern is for reference purposes only. Please consult your manufacturing group to ensure your PCB design guidelines are met.

**TAPE AND REEL INFORMATION**

Reel Dimensions



Tape Dimensions



User Direction of Feed