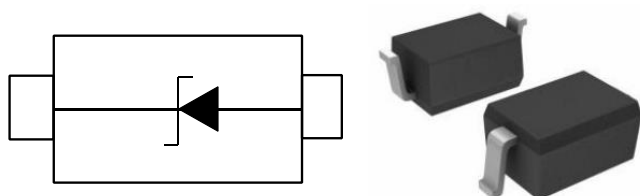


500mW , SOD-323 Zener Diode**Description**

The PZ04201D3 is a zener diode which is assembled into a SOD-323 Surface-Mounted Device (SMD) plastic package.

Features

- Standard zener breakdown voltage range 5.1V
- Steady state power rating of 500mW
- For surface mounted applications in order to optimize board space
- RoHS compliant transient

Dimensions and Pinonfiguration**Pin configuration(Top view)****SOD-323****Mechanical Characteristics**

- Package: SOD-323
- Case Material: “Green” Molding Compound
- Moisture Sensitivity: Level 1 per J-STD-020
- Marking Information: See Below

Applications

- Cellular phones
- Hand held portables
- High density PC boards

Marking Information

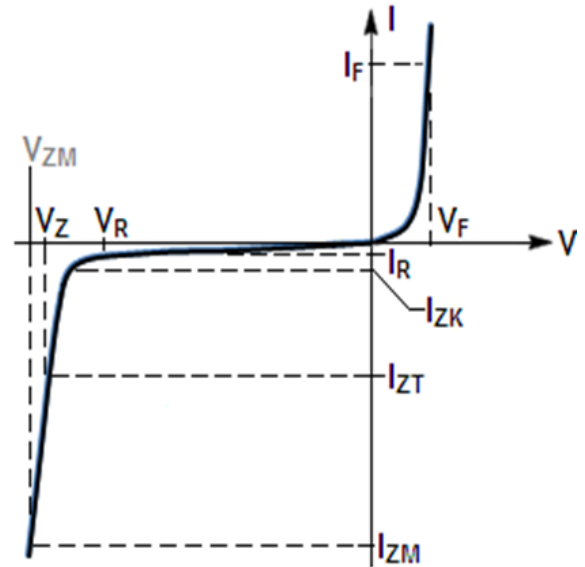
ZD = Device Making Code
Bar denotes cathode

Ordering Information

Part Number	Shipping	Reel Size
PZ04201D3	3000/Tape & Reel	7 inch

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Symbol	Parameter
V_Z	Reverse Zener Voltage @ I_{ZT}
I_{ZT}	Zener (DC)current at specified test point
Z_{ZT}	Maximum Zener Impedance @ I_{ZT}
I_{ZK}	Zener (DC)current near breakdown knee
Z_{ZK}	Maximum Zener Impedance @ I_{ZK}
I_{ZM}	Maximum Zener current
V_{ZM}	Maximum Zener voltage
P_D	Maximum steady-state power dissipation($=I_{ZM}\times V_{ZM}$)
I_R	Reverse Leakage Current @ V_R
V_R	Reverse Voltage
I_F	Forward Current
V_F	Forward Voltage @ I_F



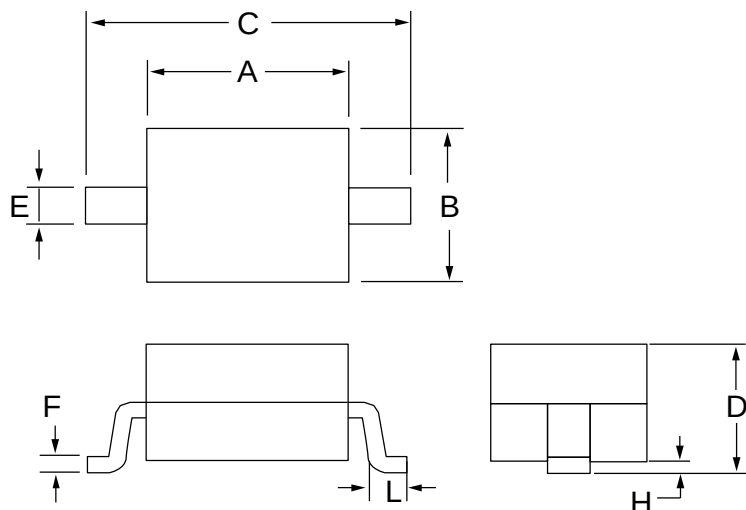
Maximum Ratings & Thermal Characteristics ($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

Items	Symbol	Value	Unit
Power dissipation	P_D	500	mW
Typical thermal resistance, junction to ambient ⁽¹⁾	$R_{\theta JA}$	300	$^{\circ}\text{C/W}$
Junction temperature	T_J	150	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 to +150	$^{\circ}\text{C}$

Electrical Characteristics ($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

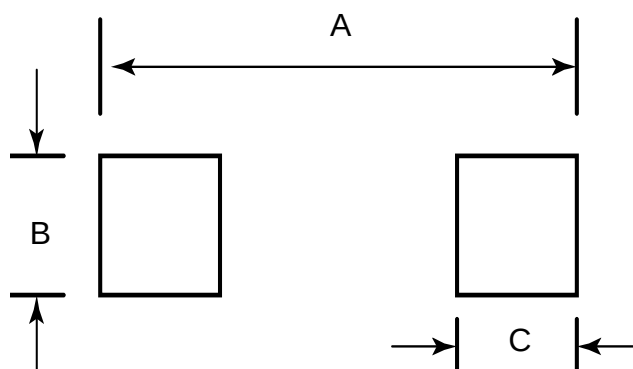
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Reverse Zener Voltage	V_Z	4.8	5.1	-	V	$I_{ZT}=5\text{mA}$
Maximum Zener Impedance	Z_{ZT}	-	-	60	Ω	$I_{ZT}=5\text{mA}$
Maximum Zener Impedance	Z_{ZK}	-	-	480	Ω	$I_{ZK}=1\text{mA}$
Reverse Leakage Current	I_R	-	-	20	μA	$V_R=4.2\text{V}$
Forward Voltage	V_F	-	-	1.25	V	$I_F=100\text{mA}$
Junction Capacitance			60	100	pF	$V_R = 0\text{V}, f = 1\text{MHz}$

SOD-323 Package Outline Drawing



SYM	DIMENSIONS				
	MILLIMETERS			INCHES	
	MIN	NOM	MAX	MIN	MAX
A	1.50	1.65	1.80	0.060	0.071
B	1.20	1.30	1.40	0.045	0.054
C	2.30	2.50	2.70	0.090	0.107
D	-		1.10	-	0.043
E	0.30		0.40	0.012	0.016
F	0.10		0.25	0.004	0.010
L	0.20		0.40	0.008	0.016
H	-		0.10	-	0.004

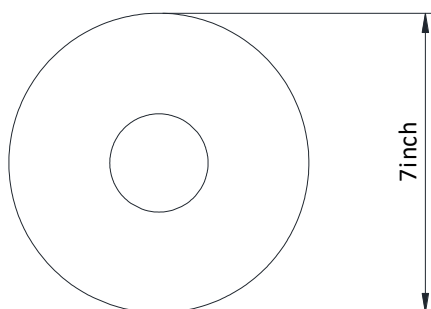
Suggested Land Pattern



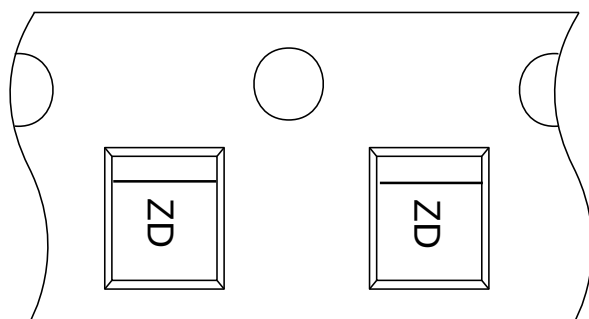
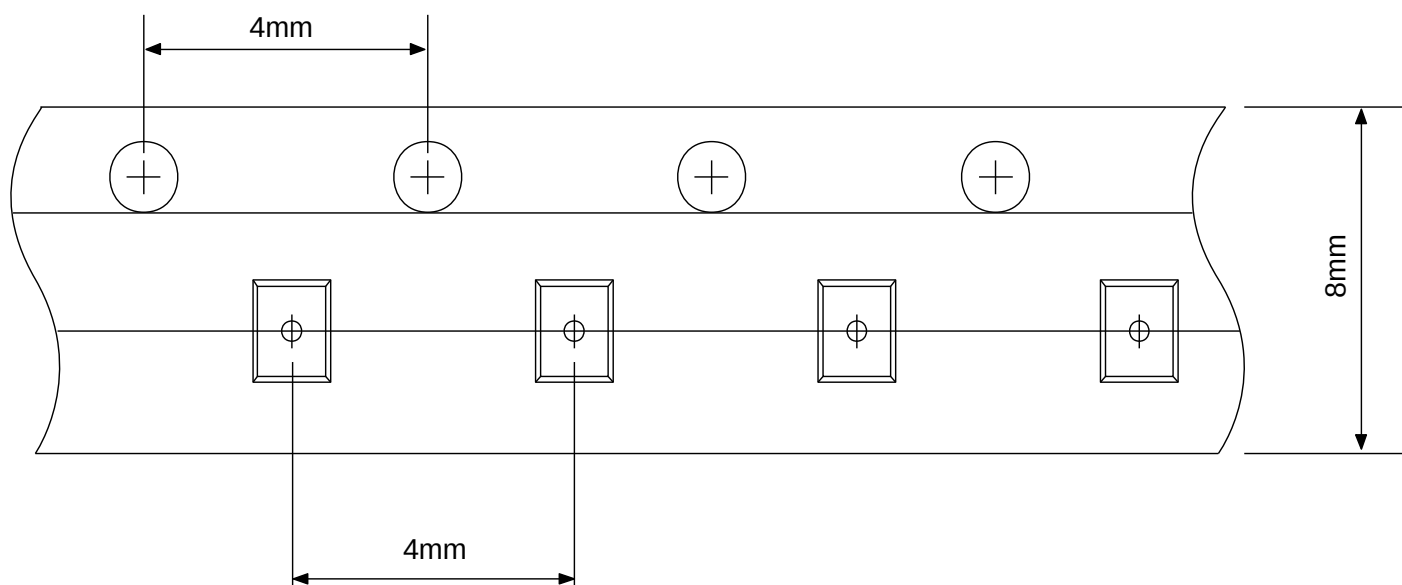
SYM	DIMENSIONS	
	MILLIMETERS	INCHES
A	3.15	0.120
B	0.80	0.031
C	0.80	0.031

TAPE AND REEL INFORMATION

Reel Dimensions



Tape Dimensions



User Direction of Feed

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