



# PJESDZ5V6TS

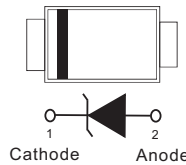
## PRODUCT FOR USE ONLY AS PROTECTION AGAINST ELECTROSTATIC DISCHARGE

### FEATURES

- This product is for protection against electrostatic discharge (ESD) only and is not intended for any other usage, including without limitation, the constant voltage diode application
- IEC 61000-4-2 ESD 30kV air, 30kV Contact Compliance
- In compliance with EU RoHS 2002/95/EC directives

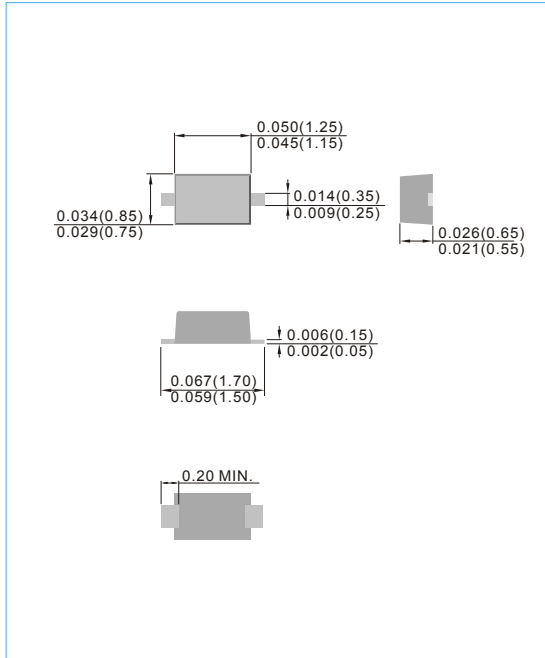
### MECHANICAL DATA

- Case: SOD-523, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See circuit schematic below
- Approx. Weight: 0.00005 ounce, 0.0014 gram
- Mounting Position: Any
- Marking: 35



### SOD-523

Unit : inch(mm)



### ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C)

Characteristics	Symbol	Rating	Unit
Power Dissipation	P <sub>D</sub>	200	mW
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to 150	°C

### ELECTRAICAL CHARACTERISTICS(T<sub>A</sub>=25°C)

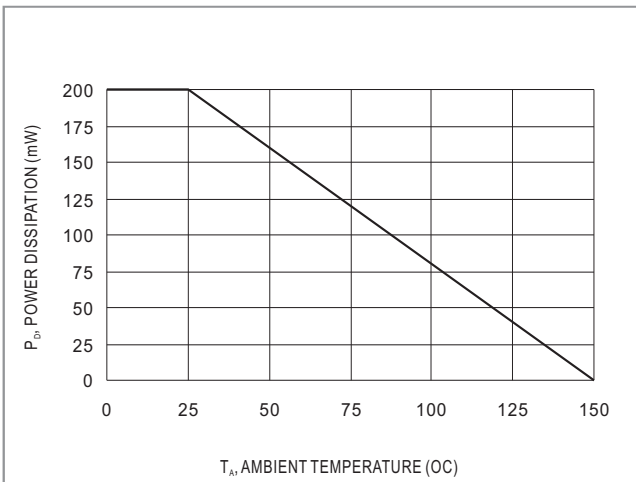
Characteristics	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Zener voltage	V <sub>Z</sub>	I <sub>Z</sub> =5mA	5.3	5.6	6	V
Dynamic impedance	Z <sub>Z</sub>	I <sub>Z</sub> =5mA	--	--	30	Ω
Reverse current	I <sub>R</sub>	V <sub>R</sub> =3.5V	--	--	1.5	μA
Terminal capacitance (between cathode and anode)	C <sub>J</sub>	V <sub>R</sub> =0V, f=1.0MHz	--	50	--	pF

#### NOTE :

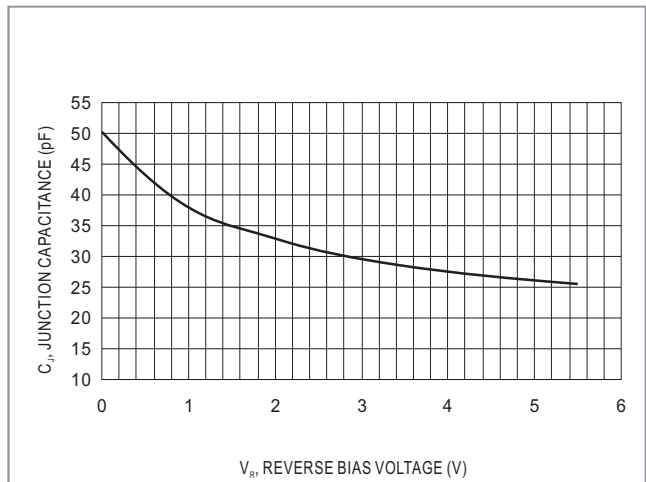
Using continuously under heavy loads (e.g the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating condition (i.e. operating temperature/current/voltage,etc.) are within the absolute maximum ratings.



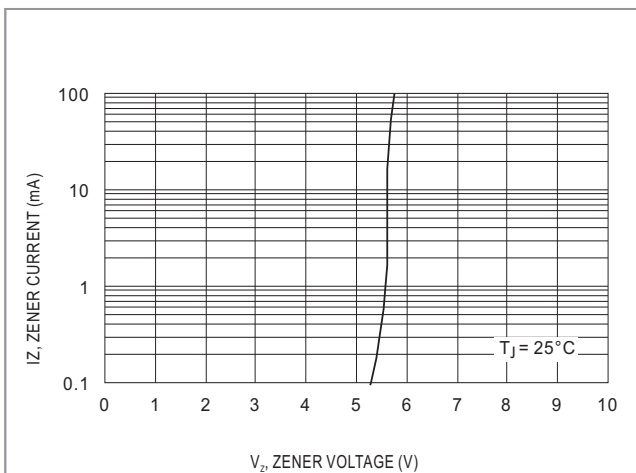
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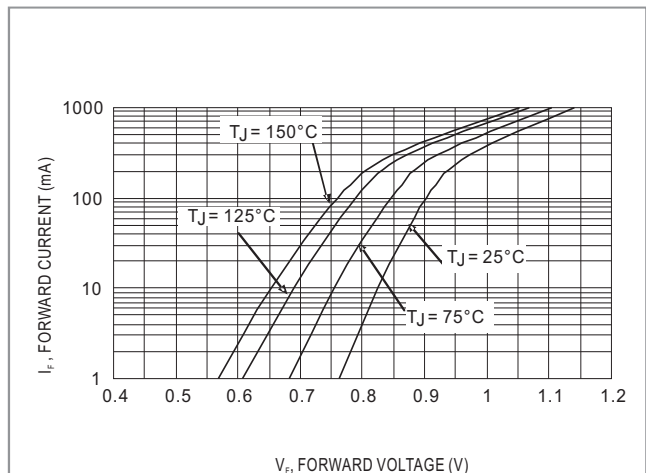
**FIG. 1 POWER DERATING CURVE**



**FIG. 2 TYPICAL JUNCTION CAPACITANCE**



**FIG. 3 TYPICAL REVERSE CHARACTERISTICS**

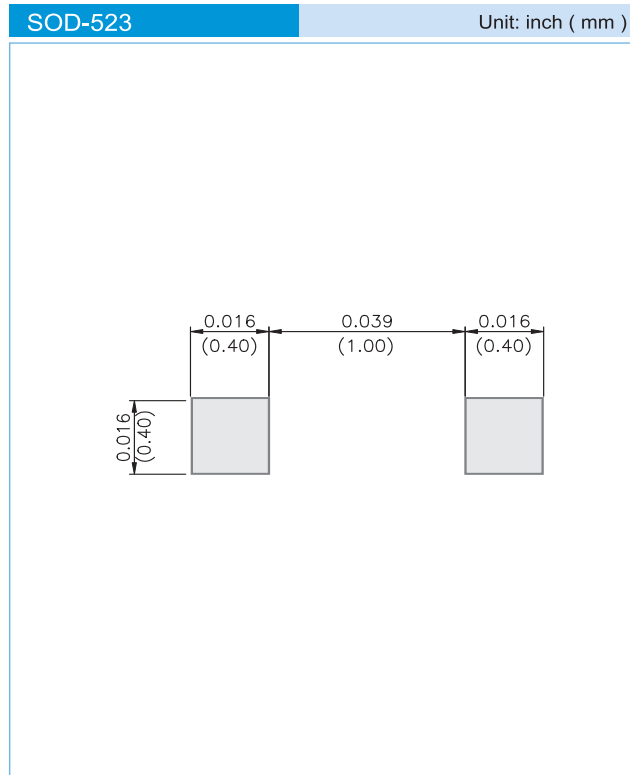


**FIG. 4 TYPICAL FORWARD CHARACTERISTICS**



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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information
  - T/R - 12K per 13" plastic Reel
  - T/R - 5K per 7" plastic Reel

## LEGAL STATEMENT

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