

SDZ36VD ZENER DIODE

Small Signal Zener Diode

General Description

These diodes small signal Zener diodes, fabricated in planar technology. Miniature surface mount package is excellent for hand-held and portable applications where is space is limited.

SOD-323

Features and Benefits

- Silicon epitaxial planar diode
- Low Zener impedance and low leakage current
- Standard Zener voltage tolerance is 5%.
- "Green" device and RoHS compliant device

Applications

· Voltage regulator

Ordering Information

Part Number	Marking Code	Package	Packaging
SDZ36VD	Y6 □	SOD-323	Tape & Reel

Marking Information



Y 6 = Specific Device Code

☐ = Year & Week Code Marking

= Color band denote cathode

Pinning Information

Pin	Description	Simplified Outline	Graphic Symbol	
1	Cathode			
2	Anode			

Absolute Maximum Ratings (T_{amb}=25°C, Unless otherwise specified)

Characteristic	Symbol	Ratings	Unit
Power dissipation 1)	P_{D}	200	mW
Operating junction temperature	TJ	150	°C
Storage temperature range	T _{stg}	-55°C to +150°C	°C

¹⁾ Device mounted on FR-4 board with recommended pad layout.

Thermal Characteristics (T_{amb}=25°C, Unless otherwise specified)

Characteristic	Symbol	Ratings	Unit
Thermal resistance, junction to ambient 1)	R _{th(j-a)}	625	°C/W

¹⁾ Device mounted on FR-4 board with recommended pad layout.

Electrical Characteristics (T_{amb}=25°C, Unless otherwise specified)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Zener voltage	V _Z	I _Z =5mA	34.2		37.8	V
Dynamic impedance	Z _{ZT}	I _Z =5mA			95	Ω
KNEE dynamic impedance	Z _{ZK}	I _Z =0.25mA	-	-	700	Ω
Reverse leakage current	I _R	V _R =27V	-	-	0.1	μА

Rating and Characteristic Curves

Fig. 1) Typical Zener Characteristics

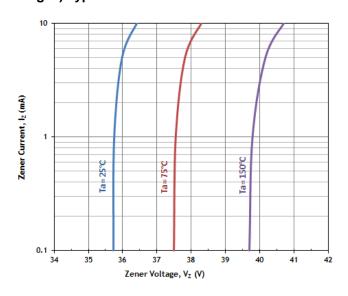


Fig. 2) Typical Reverse Characteristics

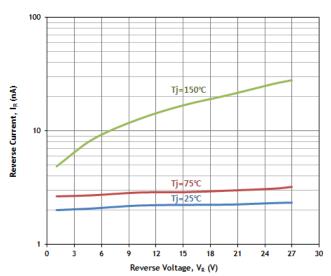


Fig. 3) Typical Capacitance Characteristics

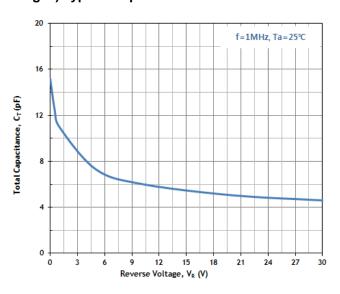
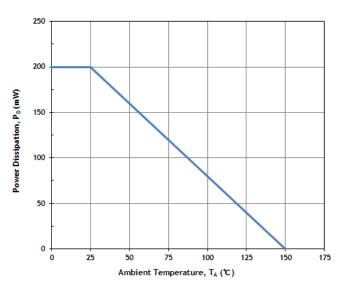
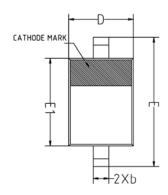
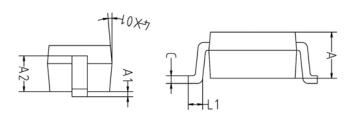


Fig. 4) Power Dissipation vs. Ambient Temperature



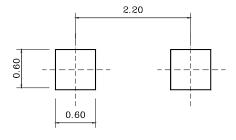
Package Outline Dimensions





SYMBOL	1	NOTE		
S T T I DOL	MINIMUM	NOMINAL	MAXIMUM	INOIL
Α	0.850	-	0.950	
A1	0.000	-	0.100	
A2	0.650	0.700	0.750	
b	0.250	0.300	0.350	
С	0.110	0.150	0.190	
D	1.200	1.250	1.300	
E	2.400	2.500	2.600	
E1	1.650	1.700	1.750	
L1	0.200	-	0.300	
0 2		5° REF		

X Recommend PCB solder land (Unit : mm)



SDZ36VD

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