



# Zener diode

## Features

- 1. Low profile package
- 2. Excellent clamping capability
- 3. Glass passivated junction
- 4.  $V_Z$ -tolerance  $\pm 5\%$



## Applications

Voltage stabilization

## Absolute Maximum Ratings

$T_j=25^\circ\text{C}$

Parameter	Test Conditions	Type	Symbol	Value	Unit
Power dissipation	$T_{amb} \leq 75^\circ\text{C}$		$P_V$	3	W
Z-current			$I_Z$	$P_V/V_Z$	mA
Junction temperature			$T_j$	150	$^\circ\text{C}$
Storage temperature range			$T_{stg}$	-55~+150	$^\circ\text{C}$

Stresses exceeding maximum ratings may damage the device. Maximum ratings are stress ratings only. Functional operation above the recommended operating conditions is not implied. Extended exposure to stresses above the recommended operating conditions may affect device reliability.

## Electrical Characteristics

$T_j=25^\circ\text{C}$

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F=200\text{mA}$		$V_F$			1.2	V

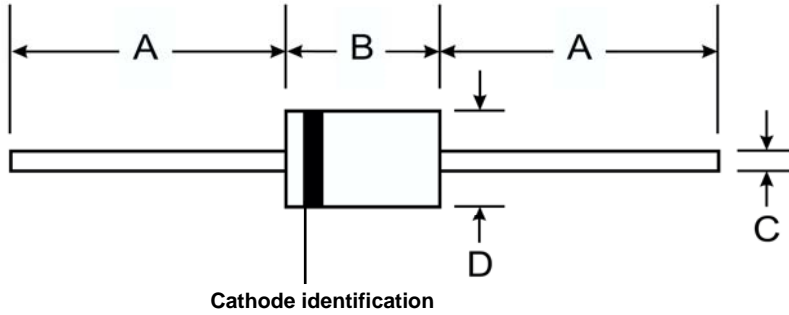


Type	$V_{Znom}^{1)}$	$I_{ZT}$ for	$Z_{ZT}$	$Z_{ZK}$ at	$I_{ZK}$	$I_R$ at	$V_R$	$I_{ZM}$
	V	mA	$\Omega$	$\Omega$	mA	$\mu A$	V	mA
3EZ3.9D5	3.9	192	<4.5	<400	1.0	<80	1.0	630
3EZ4.3D5	4.3	174	<4.5	<400	1.0	<30	1.0	590
3EZ4.7D5	4.7	160	<4.0	<500	1.0	<20	1.0	550
3EZ5.1D5	5.1	147	<3.5	<550	1.0	<5	1.0	520
3EZ5.6D5	5.6	134	<2.5	<600	1.0	<5	2.0	480
3EZ6.2D5	6.2	121	<1.5	<700	1.0	<5	3.0	435
3EZ6.8D5	6.8	110	<2.0	<700	1.0	<5	4.0	393
3EZ7.5D5	7.5	100	<2.0	<700	0.5	<5	5.0	360
3EZ8.2D5	8.2	91	<2.3	<700	0.5	<5	6.0	330
3EZ9.1D5	9.1	82	<2.5	<700	0.5	<3	7.0	297
3EZ10D5	10	75	<3.5	<700	0.25	<3	7.6	270
3EZ11D5	11	68	<4	<700	0.25	<1	8.4	225
3EZ12D5	12	63	<4.5	<700	0.25	<1	9.4	246
3EZ13D5	13	58	<4.5	<700	0.25	<0.5	9.9	208
3EZ14D5	14	53	<5	<700	0.25	<0.5	10.6	193
3EZ15D5	15	50	<5.5	<700	0.25	<0.5	11.4	180
3EZ16D5	16	47	<5.5	<700	0.25	<0.5	12.2	169
3EZ17D5	17	44	<6	<750	0.25	<0.5	13	159
3EZ18D5	18	42	<6	<750	0.25	<0.5	13.7	150
3EZ19D5	19	40	<7	<750	0.25	<0.5	14.4	142
3EZ20D5	20	37	<7	<750	0.25	<0.5	15.2	135
3EZ22D5	22	34	<8	<750	0.25	<0.5	16.7	123
3EZ24D5	24	31	<9	<750	0.25	<0.5	18.2	112
3EZ27D5	27	28	<10	<750	0.25	<0.5	20.6	100
3EZ28D5	28	27	<12	<750	0.25	<0.5	21	96
3EZ30D5	30	25	<16	<1000	0.25	<0.5	22.5	90
3EZ33D5	33	23	<20	<1000	0.25	<0.5	25.1	82
3EZ36D5	36	21	<22	<1000	0.25	<0.5	27.4	75
3EZ39D5	39	19	<28	<1000	0.25	<0.5	29.7	69

1) Based on DC-measurement at thermal equilibrium while maintaining the lead temperature( $T_L$ ) at 25°C, 9.5mm (3/8") from the diode body.



Dimensions in mm



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	1.000	---	25.40	---
B	0.230	0.300	5.80	7.60
C	0.026	0.034	0.70	0.90
D	0.104	0.140	2.60	3.60

Case: molded plastic DO-15  
Polarity: cathode band  
Marking: type number

Marking

