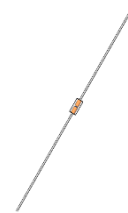


500mW,3.3 - 12V Zener Diodes

Features

- Low leakage current
- Available in unidirectional
- Glass passivated junction
- Zener voltage tolerance is $\pm 5\%$
- Silicon Planar Power Zener Diodes
- Total power dissipation: Max 500mW
- Moisture sensitivity: level 1, per J-STD-020



DO-35(DO-204AH)

Applications

Protection from high voltage, high energy transients, voltage stabilization.

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)			
Parameter	Symbol	Ratings	Unit
Zener voltage	V_Z	See Next Table	V
Power dissipation at $T_L=75^\circ\text{C}$	P_{tot}	500	mW
Typical Thermal Resistance , Junction to Ambient	$R_{\theta JA}$	300	$^\circ\text{C}/\text{W}$
Maximum junction temperature	T_J	175	$^\circ\text{C}$
Storage temperature range	T_{STG}	-65 to +175	$^\circ\text{C}$

Note:

1. Valid provided that leads at a distance of 9.5mm from case are kept at ambient temperature.



1N746A thru 1N759A

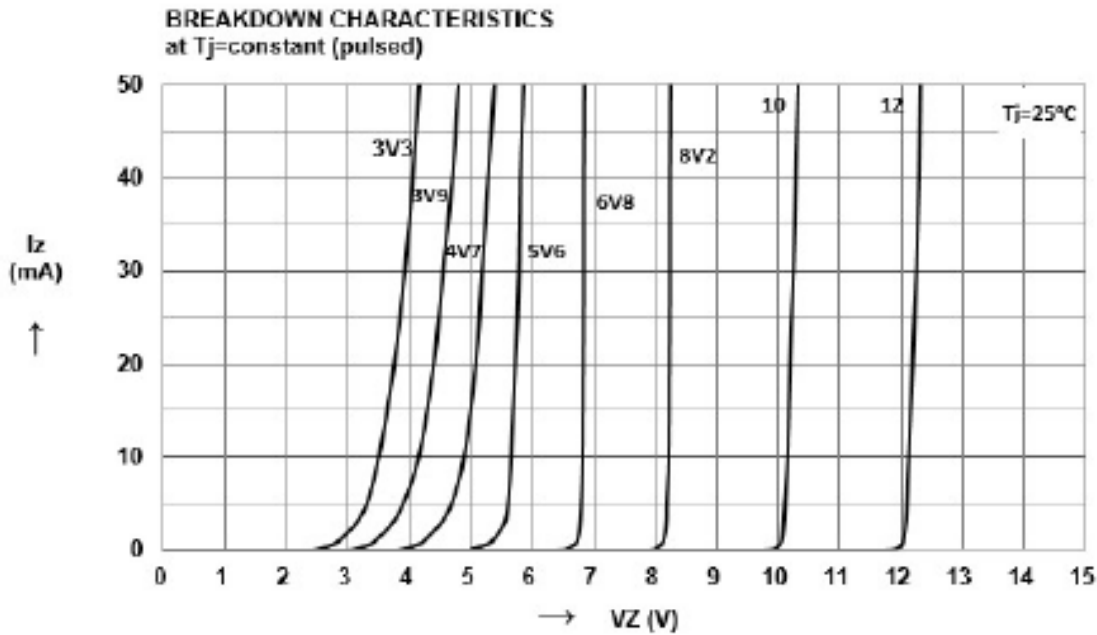
GOOD-ARK Electronics

Electrical Characteristics (TA = 25 °C unless otherwise noted)

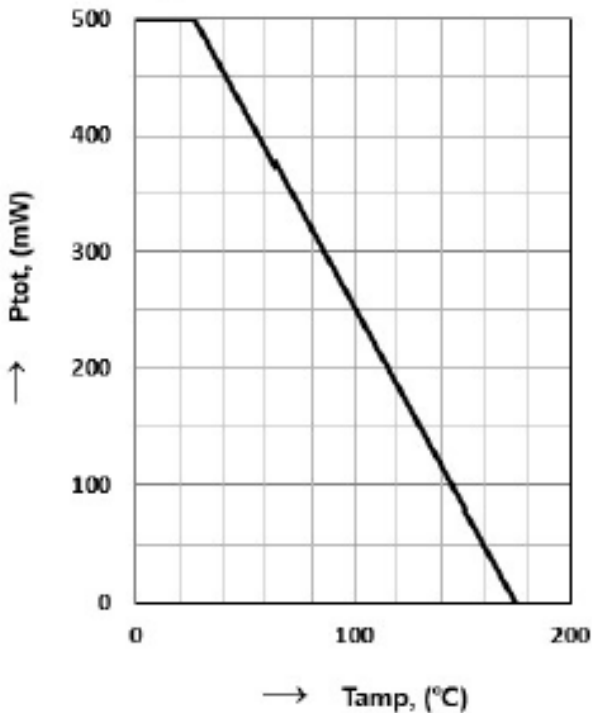
Part Number	V _Z at I _{ZT} (V)			I _{ZT} (mA)	Maximum zener impedance	Maximum reverse leakage at V _R =1V (μA)		Maximum Zener Current
	Min	Typ	Max			Z _{ZT} at I _{ZT} (Ω)	TA=25°C	
1N746A	3.14	3.3	3.47	20	28	10	30	110
1N747A	3.42	3.6	3.78	20	24	10	30	100
1N748A	3.71	3.9	4.10	20	23	10	30	95
1N749A	4.09	4.3	4.52	20	22	2	30	85
1N750A	4.47	4.7	4.94	20	19	2	30	75
1N751A	4.85	5.1	5.36	20	17	1	20	70
1N752A	5.32	5.6	5.88	20	11	1	20	65
1N753A	5.89	6.2	6.51	20	7	0.1	20	60
1N754A	6.46	6.8	7.14	20	5	0.1	20	55
1N755A	7.13	7.5	7.88	20	6	0.1	20	50
1N756A	7.79	8.2	8.61	20	8	0.1	20	45
1N757A	8.65	9.1	9.56	20	10	0.1	20	40
1N758A	9.50	10	10.50	20	17	0.1	20	35
1N759A	11.40	12	12.60	20	30	0.1	20	30

Ratings and Characteristics Curves

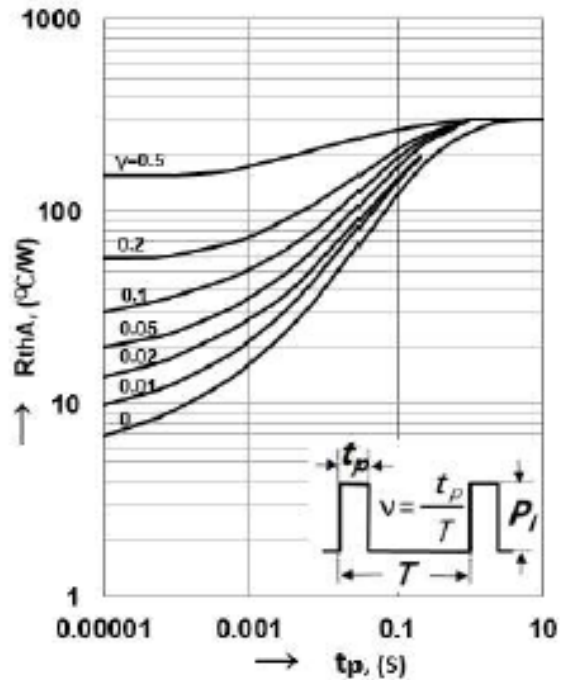
($T_A = 25^\circ\text{C}$ unless otherwise noted)

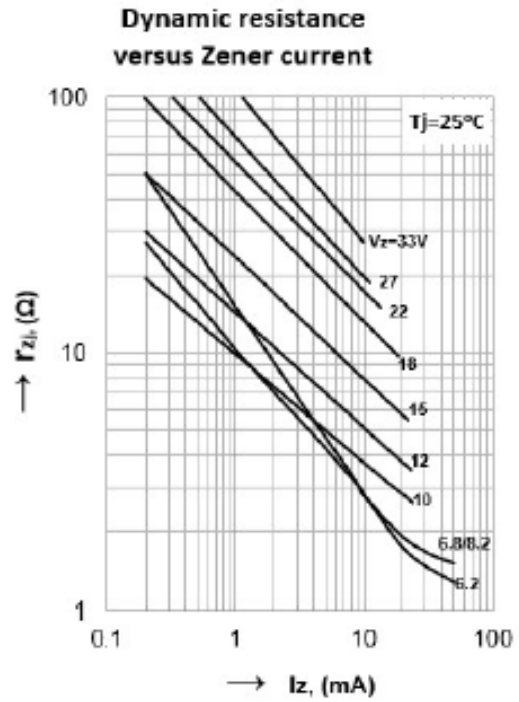
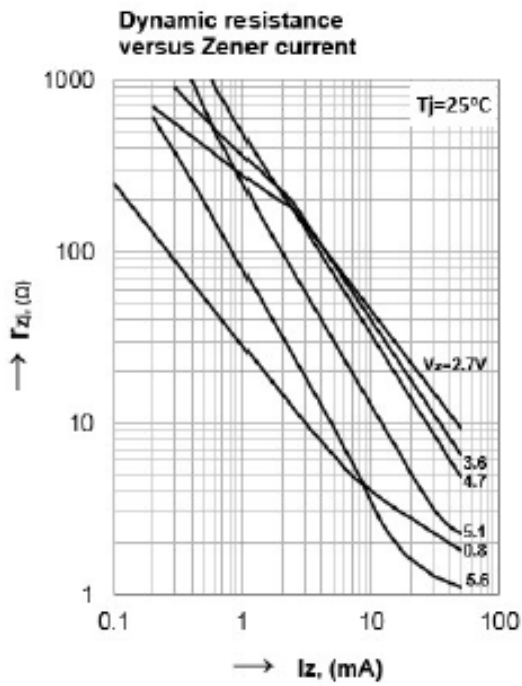


Admissible power dissipation versus ambient temperature
Valid provided that leads are kept at ambient temperature at a distance of 9.5 mm from case



Pulse thermal resistance versus pulse duration
Valid provided that leads are kept at ambient temperature at a distance of 9.5 mm from case



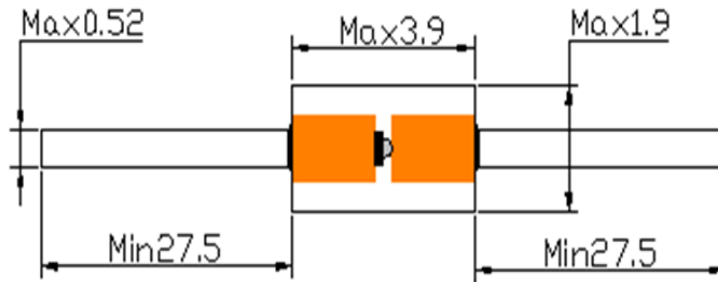


Package Outline Dimensions

in inches (millimeters)

DO-35 (DO-204AH)

CASE DIMENSION (DO-35 Type, 52mm), Unit: mm



Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.15	Released Datasheet
Rev.B	2023.10.31	Modify document format

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