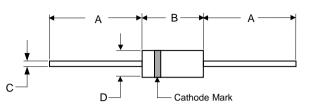


1N5518 THRU 1N5546 0.4W Low Voltage Avalanche Diodes

Features

- * Low Zener noise specified
- * Low Zener impedance
- * Low leakage current
- * Hermetically sealed glass package





DO-35						
DIM	INC	HES	MM			
	MIN	MAX	MIN	MAX		
А	1.083		27.50			
В		0.154		3.90		
С		0.020		0.50		
D		0.075		1.90		

Mechanical Data

- * Case: Hermetically sealed glass case, DO-35.
- * Lead Material: Tinned copper clad steel.
- * Marking: Body painted, alphanumeric.
- * Polarity: Banded end is cathode.
- * Thermal Resistance: 200 °C/W (Typical) junction to lead at 0.375-inches from body. Metallurgic ally bonded

DO-35's exhibit less than 100 $^\circ C/Watt$ at zero distance from body.

- * Operating temperature: -65 $^{\circ}$ C to +200 $^{\circ}$ C;
- * Storage temperature: -65 $^\circ\!\mathrm{C}$ to +200 $^\circ\!\mathrm{C}.$



1N5518 THRU 1N5546 0.4W Low Voltage Avalanche Diodes

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

	Nominal JEDEC Zener Tes		Max Zener Impedance B-	Max Reverse Leakage Current		B-C-D Suffix B-C-D Suffix Max Maximum DC Noise Density at	Regulatio	Low V _z		
Type No. (Note1)	Voltage V _Z @I _{ZT} Volts (Note2)	Current I _{ZT} mAdc	C-D Suffix Z _{ZT} @I _{ZT} OHMS (Note3)	IR µAdc (Note4)	VR-\ NON&A Suffix	/olts B-C-D Suffix	Zener Current I _{ZM} mAdc (Note5)		n ∆V _Z Volts (Note6)	Current I _{ZL} mAdc
1N5518	3.3	20	26	5	0.9	1	115	0.5	0.9	2
1N5519	3.6	20	24	3	0.9	1	105	0.5	0.9	2
1N5520	3.9	20	22	1	0.9	1	98	0.5	0.85	2
1N5521	4.3	20	18	3	1	1.5	88	0.5	0.75	2
1N5522	4.7	10	22	2	1.5	2	81	0.5	0.6	1
1N5523	5.1	5	26	2	2	2.5	75	0.5	0.65	0.25
1N5524	5.6	3	30	2	3	3.5	68	1	0.3	0.25
1N5525	6.2	1	30	1	4.5	5	61	1	0.2	0.01
1N5526	6.8	1	30	1	5.5	6.2	56	1	0.1	0.01
1N5527	7.5	1	35	0.5	6	6.8	51	2	0.05	0.01
1N5528	8.2	1	40	0.5	6.5	7.5	46	4	0.05	0.01
1N5529	9.1	1	45	0.1	7	8.2	42	4	0.05	0.01
1N5530	10	1	60	0.05	8	9.1	38	4	0.1	0.01
1N5531	11	1	80	0.05	9	9.9	35	5	0.2	0.01
1N5532	12	1	90	0.05	9.5	10.8	32	10	0.2	0.01
1N5533	13	1	90	0.01	10.5	11.7	29	15	0.2	0.01
1N5534	14	1	100	0.01	11.5	12.6	27	20	0.2	0.01
1N5535	15	1	100	0.01	12.5	13.5	25	20	0.2	0.01
1N5536	16	1	100	0.01	13	14.4	24	20	0.2	0.01
1N5537	17	1	100	0.01	14	15.3	22	20	0.2	0.01
1N5538	18	1	100	0.01	15	16.2	21	20	0.2	0.01
1N5539	19	1	100	0.01	16	17.1	20	20	0.2	0.01
1N5540	20	1	100	0.01	17	18	19	20	0.2	0.01
1N5541	22	1	100	0.01	18	19.8	17	20	0.25	0.01
1N5542	24	1	100	0.01	20	21.6	16	20	0.3	0.01
1N5543	25	1	100	0.01	21	22.4	15	20	0.35	0.01
1N5544	28	1	100	0.01	23	25.2	14	20	0.4	0.01
1N5545	30	1	100	0.01	24	27	13	20	0.45	0.01
1N5546	33	1	100	0.01	28	29.7	12	20	0.5	0.01

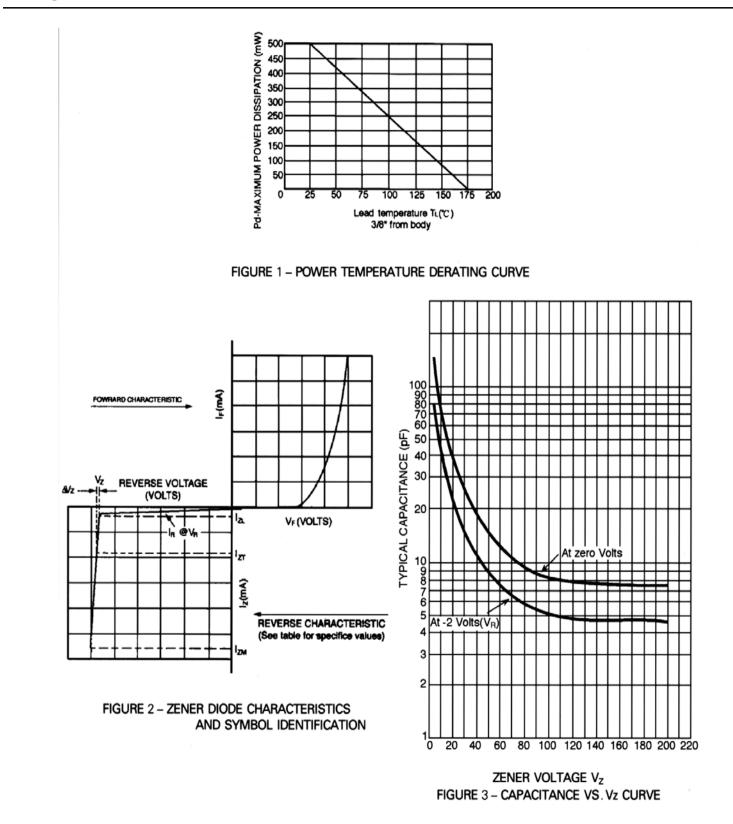
Notes:

1、 Tolerance and Voltage Designation: The JEDEC type numbers shown are ±20% with guaranteed limits for only VZ,IR and VF. units with A suffix are±10% with guaranteed limits for only VZ,IR and VF. units with guaranteed limits for all six parameters are indicated by a B suffix for ±5% units, C suffix for ±2% and D suffix for ±1.0.

- 2. Zener(VZ) Voltage Measurement: Nominal Zener voltage is measured with the device junction in thermal equilibrium with ambient temperature of 25 °C.
- 3. Zener Impedance(Zz) Derivation: The Zener impedance is derived from the 60HZ ac voltage, which results when an ac current having an rms value equal to 10% of the dc Zener current (Izt is superimposed on Izt).
- 4. Reverse Leakage Current(IR): Reverse leakage currents are guaranteed and are measured at VR as shown on the table.
- 5. Maximum Regulator Current(IzM): The maximum current shown is based on the maximum voltage of a 5.0% type unit; therefore, it applies only to the B suffix device. The actual IzM for any device may not exceed the value of 400 mill watts divided by the actual VZ of the device.
- 6. Maximum Regulation Factor(ΔVZ): ΔVZ is the maximum difference between Vz at IzT and Vz at IzL measured with the device junction in thermal equilibriu



Ratings and Characteristic Curves





Ordering Information

Part No.	Package	Packing Code	Packing
1N5518 THRU 1N5546	DO-35	A50	5000pcs/Ammo

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