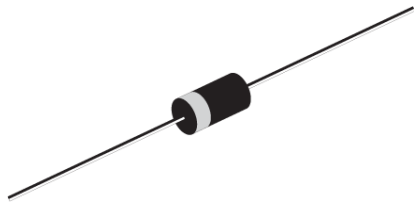


Zener Diodes

5W, Axial Lead



Features

- Low Zener impedance.
- High reliability chips.
- Lead-free finish
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- This product is available in AEC-Q101 Compliant also

**RoHS
Compliant**

Applications

- Regulates voltage over a broad operating current and temperature range
- Wide selection from 3.3 to 200V
- Flexible axial-lead mounting terminals
- Nonsensitive to ESD per MIL-STD-750 Method 1020
- Withstands high surge stresses
- Minimal changes of voltage versus current as specified by voltage regulation (ΔV_z)
- High specified maximum current (I_{ZM}) when adequately heat sunk
- Moisture classification is Level 1 per IPC/JEDEC J-STD-020B with no dry pack required

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$ Unless otherwise specified)

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	5	W
Thermal Resistance Junction To Ambient Air	$R_{\theta JA}$	100	$^\circ\text{C/W}$
Thermal Resistance Junction To Leads	$R_{\theta JL}$	25	$^\circ\text{C/W}$
Forward voltage @ $I_F=200\text{mA}$	V_F	1.2	V
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$
Operating Junction Temperature Range	T_J	-55 to +150	$^\circ\text{C}$

Electrical Characteristics at ($T_a = 25^\circ\text{C}$ Unless otherwise specified)

Part Number	Zener voltage			Test current	Dynamic impedance	Knee current	Knee impedance	Reverse current	Reverse voltage	Max.DC current
	VZ /V			IZT	ZZT	IZK	ZZK	IR(Max.)	VR	IZM
	Vz(MIN)	Vz(NOR)	Vz(MAX)	mA	Ω	mA	Ω	μA	V	mA
MP008755	5.890	6.200	6.510	200	1	1	200	1	4	765
MP008756	6.460	6.800	7.140	175	1	1	200	150	4.9	700
MP008757	7.790	8.200	8.610	150	1.5	1	200	150	5.9	580
MP008758	9.500	10.000	10.500	125	2	1	125	150	7.2	475
MP008759	11.400	12.000	12.600	100	2.5	1	125	2	8.6	395
MP008760	12.350	13.000	13.650	100	2.5	1	100	1	9.4	365
MP008761	13.330	14.000	14.700	100	25	1	75	1	10.1	340
MP008762	14.280	15.000	15.750	75	25	1	75	1	10.8	315
MP008763	15.230	16.000	16.800	75	2.5	1	75	1	11.5	295
MP008764	25.710	27.000	28.350	50	5	1	120	0.5	19.4	176
MP008765	31.420	33.000	34.650	40	10	81	150	0.5	23.8	144
MP008766	34.280	36.000	37.800	30	11	1	160	0.5	25.9	132

Zener Diodes

5W, Axial Lead

Typical Characteristic Curves

Fig 1: Power Temperature Derating Curve

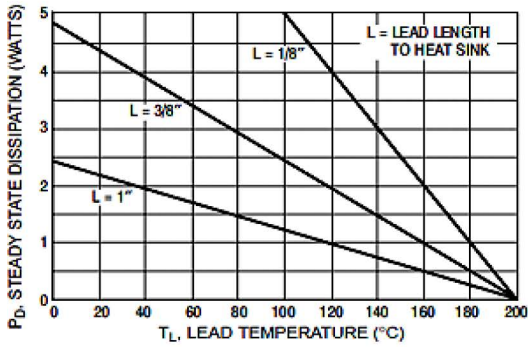


Fig 2: Typical Capacitance vs. Reverse Voltage for 5 Watt Zeners

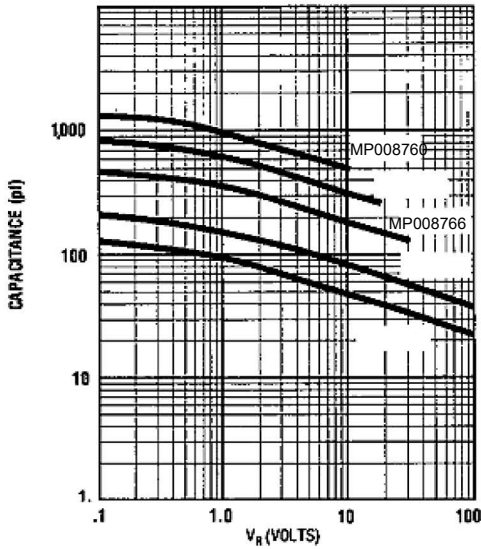
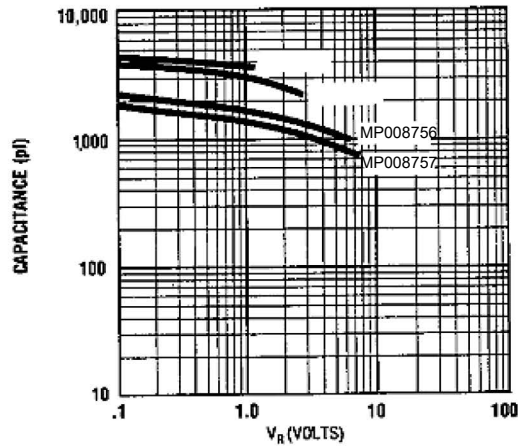


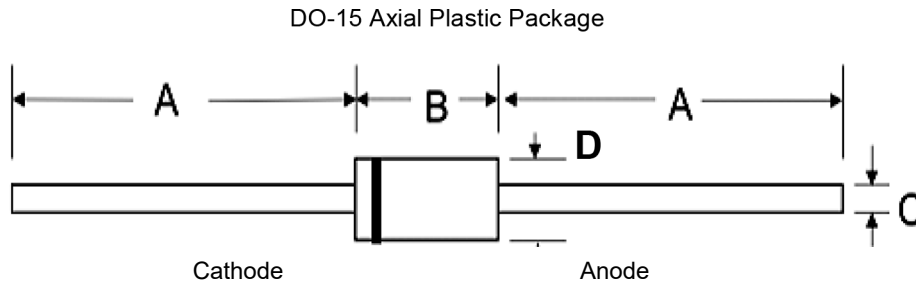
Fig 3: Typical Capacitance vs. Reverse Voltage for 5 Watt Zeners



Zener Diodes

5W, Axial Lead

Dimensions



DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	25.4	--	1.000	--
B	5.80	7.60	0.230	0.300
C	0.70	0.90	0.028	0.034
D	2.60	3.60	0.104	0.140

Part Number Table

Description	Part Number
Zener Diode, 5W, 6.2V, DO-15P, Axial	MP008755
Zener Diode, 5W, 6.8V, DO-15P, Axial	MP008756
Zener Diode, 5W, 8.2V, DO-15P, Axial	MP008757
Zener Diode, 5W, 10V, DO-15P, Axial	MP008758
Zener Diode, 5W, 12V, DO-15P, Axial	MP008759
Zener Diode, 5W, 13V, DO-15P, Axial	MP008760
Zener Diode, 5W, 14V, DO-15P, Axial	MP008761
Zener Diode, 5W, 15V, DO-15P, Axial	MP008762
Zener Diode, 5W, 16V, DO-15P, Axial	MP008763
Zener Diode, 5W, 27V, DO-15P, Axial	MP008764
Zener Diode, 5W, 33V, DO-15P, Axial	MP008765
Zener Diode, 5W, 36V, DO-15P, Axial	MP008766

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