

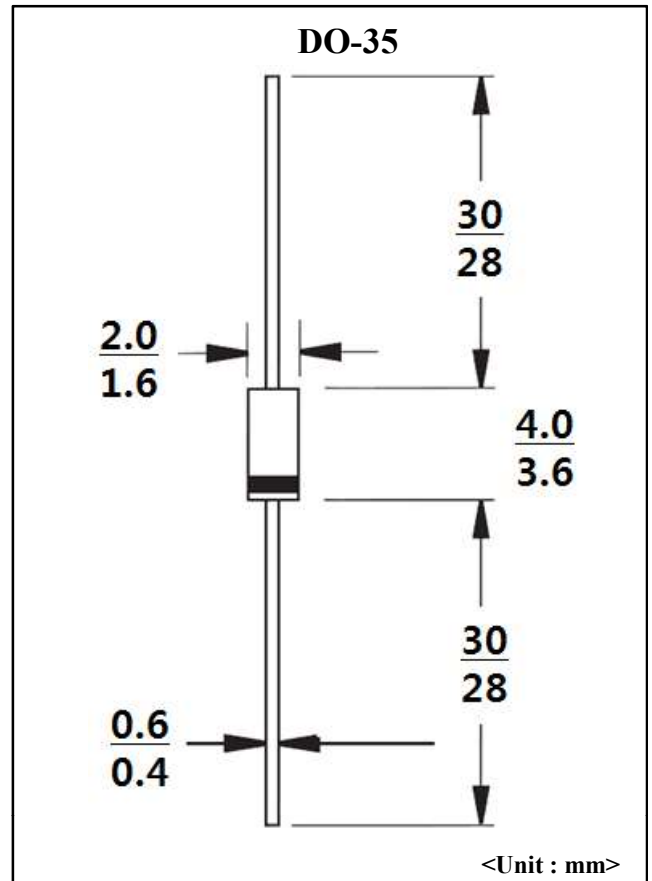
0.5W Glass Seal Zener Diode

Features

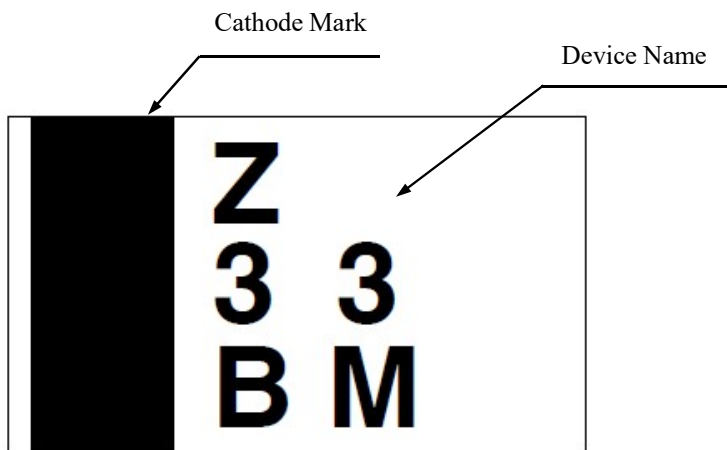
- Small, light and high-quality diode with glass-sealed structure
- Silicon planer zener diode

Applications

- Constant-voltage circuit
- Surge absorbing circuit
- Voltage shift circuit



Marking



Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	Rated Value	Unit
Power Dissipation	Pd	0.5	W
Maximum Junction Temperature	T _J	175	°C
Storage Temperature Range	T _{STG}	-65 to +175	°C



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

Type No.		Zener Voltage			Dynamic Resistance		Reverse Direction Characteristic		Temp Coefficient of Zener Voltage Vz(%/°C)
		Min	Max	Measurement Condition Iz(mA)	Max Rz(Ω)	Measurement Condition Iz(mA)	Max IR(uA)	Measurement Condition VR(V)	
DZ2.0	A	1.8	2.3	10	100	10	100	0.5	-0.75
	B	1.9	2.1						
DZ2.2	A	2.0	2.5	10	100	10	100	0.7	-0.75
	B	2.1	2.3						
DZ2.4	A	2.2	2.7	10	100	10	100	1.0	-0.07
	B	2.3	2.6						
DZ2.7	A	2.4	3.2	10	100	10	80	1.0	-0.07
	B	2.6	2.9						
DZ3.0	A	2.6	3.5	10	80	10	50	1.0	-0.07
	B	2.8	3.2						
DZ3.3	A	3.0	3.8	10	70	10	40	1.0	-0.65
	B	3.1	3.5						
DZ3.6	A	3.3	4.1	10	70	10	10	1.0	-0.06
	B	3.4	3.8						
DZ3.9	A	3.6	4.5	10	70	10	10	1.0	-0.04
	B	3.7	4.1						
DZ4.3	A	3.9	4.9	10	60	10	10	1.0	-0.02
	B	4.0	4.6						
DZ4.7	A	4.3	5.3	10	60	10	10	1.0	-0.01
	B	4.4	5.0						
DZ5.1	A	4.7	5.8	10	50	10	10	1.5	0.035
	B	4.8	5.4						
DZ5.6B		5.2	6.0	10	20	10	10	1.0	0.04
	L	5.2	5.6						
	M	5.4	5.8						
	H	5.6	6.0						
DZ6.2B		5.8	6.6	10	10	10	1.0	1.5	0.035
	L	5.8	6.2						
	M	6.0	6.4						
	H	6.2	6.6						
DZ6.8B		6.4	7.2	10	10	10	1.0	2.0	0.04
	L	6.4	6.8						
	M	6.6	7.0						
	H	6.8	7.2						
DZ7.5B		7.0	7.9	10	10	10	1.0	3.0	0.052
	L	7.0	7.5						
	M	7.2	7.7						
	H	7.5	7.9						



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

Type No.		Zener Voltage		Measurement Condition I _Z (mA)	Dynamic Resistance		Reverse Direction Characteristic		Reverse Direction Characteristic
		Min	Max		Max R _Z (Ω)	Measurement Condition I _Z (mA)	Max I _R (μA)	Measurement Condition V _R (V)	Max I _R (μA)
DZ8.2B		7.7	8.7	10	10	10	1.0	4.0	0.055
	L	7.7	8.2						
	M	7.9	8.5						
	H	8.2	8.7						
DZ9.1B		8.5	9.6	10	10	10	1.0	6.0	0.055
	L	8.5	9.1						
	M	8.7	9.4						
	H	9.1	9.6						
DZ10B		9.9	10.6	10	15	5.0	1.0	8.0	0.06
	L	9.4	10.0						
	M	9.6	10.4						
	H	10.0	10.6						
DZ11B		10.4	11.6	5.0	15	5.0	1.0	9.0	0.06
	L	10.4	11.0						
	M	10.6	11.4						
	H	11.0	11.6						
DZ12B		11.4	12.6	5.0	20	5.0	1.0	10.0	0.065
	L	11.4	12.0						
	M	11.6	12.4						
	H	12.0	12.6						
DZ13B		12.4	14.1	5.0	25	5.0	1.0	11.0	0.065
	L	12.4	13.2						
	M	12.6	13.9						
	H	13.2	14.1						
DZ15B		13.9	15.6	5.0	30	5.0	1.0	12.0	0.07
	L	13.9	14.8						
	M	14.1	15.4						
	H	14.8	15.6						
DZ16B		15.4	17.1	5.0	30	5.0	1.0	14.0	0.07
	L	15.4	16.2						
	M	15.6	16.9						
	H	16.2	17.1						
DZ18B		16.9	19.1	5.0	30	5.0	1.0	15.0	0.075
	L	16.9	18.0						
	M	17.1	18.9						
	H	18.0	19.1						



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

Type No.		Zener Voltage		Measurement Condition I _Z (mA)	Dynamic Resistance		Reverse Direction Characteristic		Reverse Direction Characteristic
		Min	Max		Max R _Z (Ω)	Measurement Condition I _Z (mA)	Max I _R (μA)	Measurement Condition V _R (V)	Max I _R (μA)
DZ20B		18.9	21.1	5.0	40	5.0	1.0	16.0	0.080
	L	18.9	20.0						
	M	19.1	20.9						
	H	20.0	21.1						
DZ22B		20.9	23.1	5.0	40	5.0	1.0	18.0	0.080
	L	20.9	22.0						
	M	21.1	22.8						
	H	22.0	23.1						
DZ24B		22.8	25.7	5.0	50	5.0	1.0	20.0	0.085
	L	22.8	24.2						
	M	23.1	25.5						
	H	24.2	25.7						
DZ27B		25.5	30.0	5.0	55	5.0	1.0	22.0	0.090
	L	25.5	27.0						
	M	25.7	28.0						
	H	27.0	30.0						
DZ30B		28.0	33.0	5.0	85	5.0	1.0	24.0	0.092
	L	28.0	31.0						
	M	29.0	32.0						
	H	30.0	33.0						
DZ33	BM	30.0	36.0	5.0	100	5.0	1.0	25.0	0.095
DZ36	BM	33.0	39.0	5.0	110	5.0	1.0	27.0	0.095
DZ39	BM	36.0	43.0	5.0	120	5.0	1.0	30.0	0.095
DZ43	BM	39.0	47.0	5.0	130	5.0	1.0	33.0	0.095
DZ47	BM	43.0	51.0	5.0	140	5.0	1.0	36.0	0.098
DZ51	BM	47.0	51.0	5.0	150	5.0	1.0	36.0	0.098
DZ56	BM	51.0	62.0	5.0	160	5.0	1.0	43.0	0.098
DZ62	BM	56.0	68.0	5.0	450	2.0	1.0	47.0	0.120



Rating and Characteristic Curves

Admissible power dissipation versus ambient temperature

Valid provided that leads at a distance of 10mm from case are kept at ambient temperature

