

ZENER DIODES

VOLTAGE RANGE: 60 --- 200V

PEAK PULSE POWER:500mW

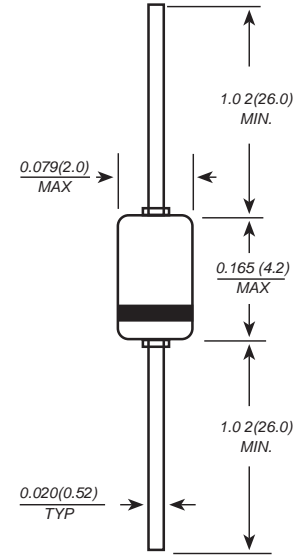
FEATURES

- Low zener impedance
- Low regulation factor
- Glass passivated junction
- High temperature soldering guaranteed:260 °C/10S/9.5mm lead length at 5 lbs tension

MECHANICAL DATA

- Case:DO-35(GLASS) molded glass body
- Terminals: Plated axial leads, solderable per MIL-STD 750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any

DO-35(GLASS)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

Parameters	SYMBOLS	VALUE	UNITS
Power Dissipation at Tamb=25 C(Note 1)	P _{tot}	500	mW
Junction Temperature	T _J	200	°C
Storage Temperature Range	T _{STG}	-65 to + 200	°C
Thermal resistance junction ambient(Note 1)	R _{θJA}	0.3	K/mW
Forward voltage at I _F =200mA	V _F	1.1	V

Note 1: Valid provided that leads at a distance of 10mm from case are kept at ambient temperature

RATINGS AND CHARACTERISTIC CURVES

Electrical Specification ($T_A=25@25^{\circ}\text{C}$ unless otherwise specified)

TYPE	Zener Voltage Range		Maximum Zener Impedance ¹⁾			Maximum Reverse Leakage Current		Temp. Coefficient of Zener Voltage
	V_Z	I_{ZT}	I_{ZT}	I_{ZK}	at I_{ZK}	I_R ²⁾	at V_R	TK_{VZ}
	V	mA	Ω	Ω	mA	μA	V	%/K
1N5264B	60	2.1	170	1400	0.25	0.1	46	<+0.097
1N5265B	62	2	185	1400	0.25	0.1	47	<+0.097
1N5266B	68	1.8	230	1600	0.25	0.1	52	<+0.097
1N5267B	75	1.7	270	1700	0.25	0.1	56	<+0.098
1N5268B	82	1.5	330	2000	0.25	0.1	62	<+0.098
1N5269B	87	1.4	370	2200	0.25	0.1	68	<+0.099
1N5270B	91	1.4	400	2300	0.25	0.1	69	<+0.099
1N5271B	100	1.3	500	—	—	0.1	75	<+0.100
1N5272B	110	1.2	700	—	—	0.1	83	<+0.100
1N5273B	120	1	950	—	—	0.1	90	<+0.100
1N5274B	130	0.95	1100	—	—	0.1	98	<+0.110
1N5275B	140	0.9	1300	—	—	0.1	105	<+0.110
1N5276B	150	0.85	1500	—	—	0.1	113	<+0.110
1N5277B	160	0.8	1700	—	—	0.1	120	<+0.115
1N5278B	170	0.74	1900	—	—	0.1	127	<+0.115
1N5279B	180	0.68	2200	—	—	0.1	135	<+0.120
1N5280B	190	0.66	2400	—	—	0.1	142	<+0.120
1N5281B	200	0.65	2500	—	—	0.1	150	<+0.120

Note 1: $V_F=1.2\text{V}@I_F=200\text{mA}$, Tolerance of zener voltage: $\pm 5\%$