multicomp PRO

RoHS Compliant



Features

- High reliability
- Very sharp reverse characteristic
- Zener voltage 3.3 to 12V
- Vz-tolerance ±5%

Applications

Voltage stabilization

Absolute Maximum Ratings TJ = 25°C

Parameter	Test Conditions	Symbol	Value	Unit
Power dissipation	Tamb ≤ 75°C	Pv	500	mW
Z-current	-	lz	Pv / Vz	mA
Junction Temperature	-	Tj	200	°C
Storage Temperature Range	-	Tstg	-65 to +200	°C

Maximum Thermal Resistance T_J = 25°C

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	I = 9.5 mm (3/8 inches) TL = constant	RthJA	300	K/W

Stresses exceeding maximum ratings may damage the device. Maximum ratings are stress ratings only. Functional operation above the recommended operating conditions is not implied. Extended exposure to stresses above the recommended operating conditions may affect device reliability.

Electrical Characteristics TJ = 25°C

Parameter Test Conditions		Symbol	Maximum	Unit
Forward voltage IF = 200mA		VF	1.5	V

Specification Table

Туре	VZnom ¹⁾	Izt for Zzt		IR at VR		Izm ²⁾
	V	mA	Ω	μA	V	mA
1N746A	3.3	20	28	10	1	110
1N747A	3.6	20	24	10	1	100
1N748A	3.9	20	23	10	1	95
1N749A	4.3	20	22	2	1	85
1N750A	4.7	20	19	2	1	75
1N751A	5.1	20	17	1	1	70
1N752A	5.6	20	11	1	1	65
1N753A	6.2	20	7	0.1	1	60
1N754A	6.8	20	5	0.1	1	55
1N755A	7.5	20	6	0.1	1	50



Туре	VZnom ¹⁾	Izt for Zzt		IR at VR		Izm ²⁾
	V	mA	Ω	μA	V	mA
1N756A	8.2	20	8	0.1	1	45
1N757A	9.1	20	10	0.1	1	40
1N758A	10	20	17	0.1	1	35
1N759A	12	20	30	0.1	1	30

¹⁾ Tolerance and voltage designation (Vz):

The type numbers shown have a standard tolerance of $\pm 5\%$ on the nominal zener voltage, C for $\pm 2\%$, D for $\pm 1\%$ ²⁾ Maximum zener current ratings (Iz_M):

Maximum zener current ratings are based on maximum zener voltage of the individual units and JEDEC 250 mW rating

Characteristics (T_J = 25°C unless otherwise specified)



(-55°C to +150°C temperature range; 90% of the units are in the ranges indicated.)



Zener Diode





Zener Diode

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Diagram



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