Zener Diode 1N4728A-1N4764A





Features:

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- High reliability.
- Very sharp reverse characteristic.
- Low reverse current level.
- V_z-tolerance ±5%.

Applications:

Voltage stabilization

Absolute Maximum Ratings T_j = 25°C

Parameter	Test Conditions	Symbol	Value	Unit
Power dissipation	$T_{amb} \le 50^{\circ}C$	P _v	1	W
Z-current	-	Ι _z	P _v /V _z	mA
Junction temperature	-	Tj	200	*
Storage temperature range	-	T _{stg}	-65 to +175	°C

Maximum Thermal Resistance $T_j = 25^{\circ}C$

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	I = 9.5mm (3/8 inches) T_L = constant	R _{thJA}	100	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 T_i = 25°C

Parameter	Test Conditions	Symbol	Maximum	Unit
Forward voltage	I _F = 200mA	V _F	1.2	V





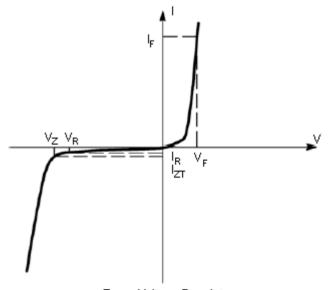
Specification Table

V _{Znom} ¹⁾		I _{ZT}	I _{ZT} for r _{ziT} r _{ziK}		at I _{ZK} I _R		t V _R	Part Number	
Description	V	mA	Ω	Ω	mA	μA	V		
Zener Diode	3.3	76	. 10	< 400	< 10 < 400		. 100		1N4728A
Zener Diode	3.6	69	- < 10				< 100		1N4729A
Zener Diode	3.9	64	< 9				< 50	1	1N4730A
Zener Diode	4.7	53	< 8				1N4732A		
Zener Diode	5.1	49	< 7	< 550	1 			1N4733A	
Zener Diode	5.6	45	< 5	< 600				2	1N4734A
Zener Diode	6.2	41	< 2				3	1N4735A	
Zener Diode	6.8	37	< 3.5	< 700			< 10	4	1N4736A
Zener Diode	7.5	34	< 4			-	5	1N4737A	
Zener Diode	8.2	31	< 4.5		0.5		6	1N4738A	
Zener Diode	9.1	28	< 5				7	1N4739A	
Zener Diode	10	25	< 7		0.25	1	7.6	1N4740A	
Zener Diode	62	4	< 125	< 2000	0.25	< 5	47.1	1N4759A	

1) Based on DC-measurement at thermal equilibrium while maintaining the lead temperature (T_L) at 30°C, 9.5mm (3/8 inches) from the diode body.

Characteristics ($T_j = 25^{\circ}C$ unless otherwise specified)

Symbol	Parameter		
V _Z	Reverse zener voltage at I_{ZT}		
I _{ZT}	Reverse current		
Z _{ZT}	Maximum zener impedance at I_{ZT}		
I _{ZK}	Reverse current		
Z _{ZK}	Maximum zener impedance at ${\rm I}_{\rm Zk}$		
I _R	Reverse leakage current at V_R		
V _R	Breakdown voltage		
۱ _F	Forward current		
V _F	Forward voltage at I _F		



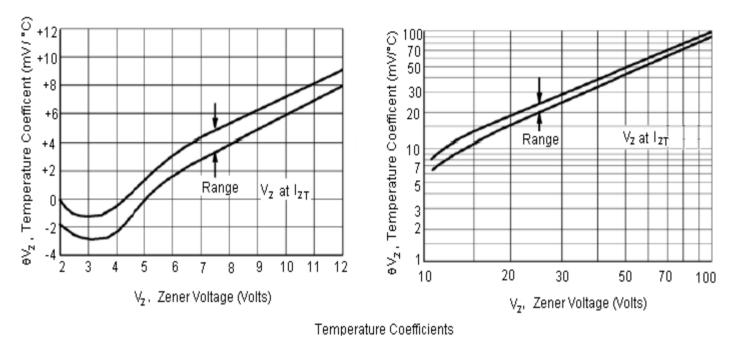
Zener Voltage Regulator

http://www.element14.com http://www.farnell.com http://www.newark.com

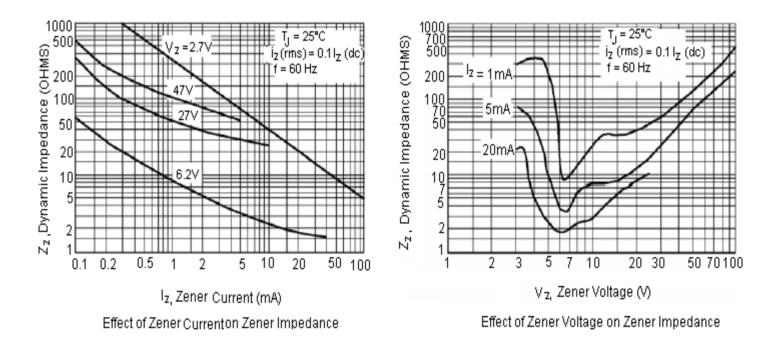




Characteristics (T_i = 25°C unless otherwise specified)



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



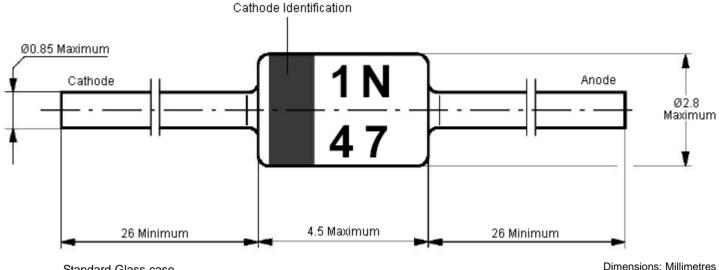
http://www.element14.com http://www.farnell.com http://www.newark.com



Zener Diode

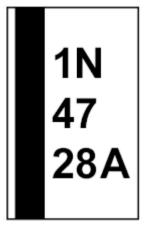
1N4728A-1N4764A





Standard Glass case JEDEC DO-41

Marking



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