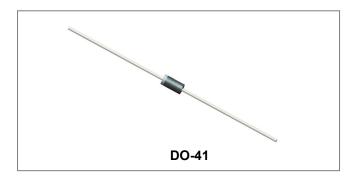






1N4729A THRU 1N4747A Zener Diode Zener Voltage: 3.6-20V Peak Pulse Power: 1000mW

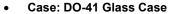


Features

- Low zener impedance
- Low reverse leakage
- Power dissipation of 1000mW
- · High stability and high reliability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram





Polarity: Color band denotes cathode end

• Mounting Position: Any

		\sim
Cathode	-	Anode

Maximum Ratings@T_A=25°C unless otherwise specified

Parameter	Symbol	Value	Units
Power Dissipation (Note 1)	P _D	1000	mW
Forward Voltage @ I _F = 200mA	VF	1.2	V
Typical Thermal resistance junction to Ambient Air (Note 1)	R _{θJA}	170	°C/W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-65 to 200	°C

Notes: 1. Valid provided that leads are kept at ambient temperature at a distance of 8mm from case

Ordering Information

Device	Package	Shipping
1N4729A-1N4747A	DO-41 (Pb-Free)	5000pcs / tape

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



1N4729A = Part Name

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Electrical Characteristics @T_A=25°C unless otherwise specified

Zener Voltage	Nominal Zener Voltage	ner tage Current @lzr Izr	Maximum Zener Impedance		Maximum Reverse Leakage Current		lzx	Max.Surge Current	Maximum Regulator Current
	Vz@lzt		Zzt@lzt Ohms	Zzralzk Ohms	IR μA	@V _R Volts	mA	In@25°C mA	Izm mA
	Volts								
1N4729A	3.6	69	10	400	100	1.0	1.0	1260	252
1N4732A	4.7	53	8.0	500	10	1.0	1.0	965	193
1N4733A	5.1	49	7.0	550	10	1.0	1.0	890	178
1N4734A	5.6	45	5.0	600	10	2.0	1.0	810	162
1N4735A	6.2	41	2.0	700	10	3.0	1.0	730	146
1N4736A	6.8	37	3.5	700	10	4.0	1.0	660	133
1N4737A	7.5	34	4.0	700	10	5.0	0.5	605	121
1N4738A	8.2	31	4.5	700	10	6.0	0.5	550	110
1N4739A	9.1	28	5.0	700	10	7.0	0.5	500	100
1N4740A	10	25	7.0	700	10	7.6	0.25	454	91
1N4741A	11	23	8.0	700	5.0	8.4	0.25	414	83
1N4742A	12	21	9.0	700	5.0	9.1	0.25	380	76
1N4743A	13	19	10	700	5.0	9.9	0.25	344	69
1N4744A	15	17	14	700	5.0	11.4	0.25	304	61
1N4745A	16	15.5	16	700	5.0	12.2	0.25	285	57
1N4746A	18	14	20	750	5.0	13.7	0.25	250	50
1N4747A	20	12.5	22	750	5.0	15.2	0.25	225	45

Note 1. Suffix "A" indicate ±5% tolerance

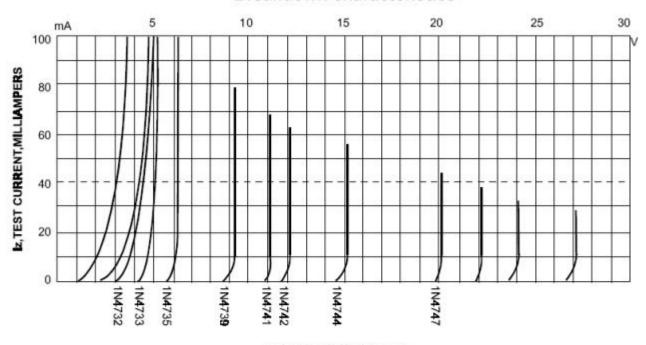






Ratings and Characteristics Curves

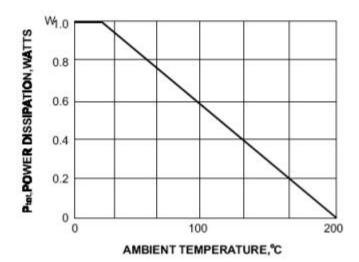




Vz,ZENER VOLTAGE, volts

Admissible power dissipation versus ambient temperature

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



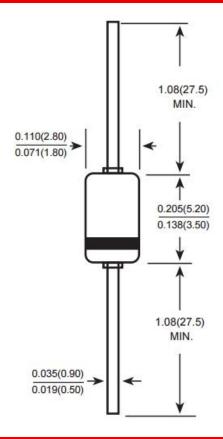
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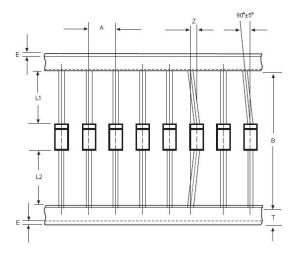




Mechanical Dimensions DO-41(Inches/Millimeters)



Carrier Tape Specification DO-41



SYMBOL	Millimeters			
	Min.	Max.		
А	4.50	5.50		
В	50.9	53.9		
Z	-	1.20		
Т	5.60	6.40		
E	-	0.80		
IL1-L2I	-	1.0		

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