

# DC COMPONENTS CO., LTD.

## RECTIFIER SPECIALISTS

1N4728A THRU 1N4764A

### TECHNICAL SPECIFICATIONS OF GLASS SILICON ZENER

#### **FEATURES**

- \* Voltage Range:3.3V to 100V
- \* Double slug type construction

#### MECHANICAL DATA

- \* Case: Glass sealed case
- \* Terminals:Solder plated, solderable per

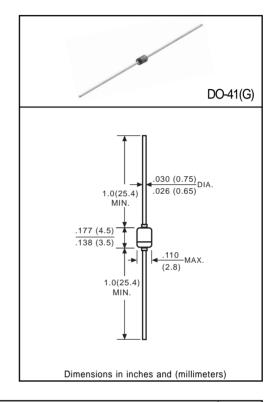
MIL-STD-750, Method 2026

\* Polarity: Color band denotes cathode end

\* Mounting position: Any \* Weight: 0.35 gram

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



	SYMBOL	VALUE	UNIT				
Zener Current see Table "Characterisitics"							
Power Dissipation at Tamb=25°C	Ptot	1 <sup>(1)</sup>	W				
Junction Temperature	Tj	200	°C				
Storage Temperature Range	Tstg	-55 to +200	°C				
	RthA		K/mW				
Thermal Resistance Junction to Ambient Air		-	Тур.				
		-	Min.				
		170 <sup>(1)</sup>	Max.				
	VF		Volts				
Forward Voltage at IF=200mA		-	Тур.				
		-	Min.				
		1.2	Max.				
1) Valid Provided that leads are kept at ambient temperature at a distance of 10 mm from case.							

NOTE: Suffix "A" indicates Zener Voltage Tolerance ± 5%

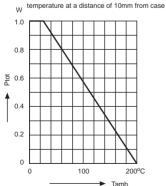
REV-3,MAR,2017 1 www.dccomponents.com

# **RATING AND CHARACTERISTIC CURVES (1N4728A THRU 1N4764A)**

	Nominal Zener	Zener Test	Maximum Zener Impedance		IZK	Maximum Reverse Leakage Current	
TYPE	Voltage	Current				o	
	VZ@IZT	IZT	ZZT@IZT	ZZT@IZK		IR	@VR
	Volts	mA	Ohms	Ohms	mA	μΑ	Volts
1N4728A	3.3	76	10	400	1.0	100	1.0
1N4729A	3.6	69	10	400	1.0	100	1.0
1N4730A	3.9	64	9.0	400	1.0	50	1.0
1N4731A	4.3	58	9.0	400	1.0	10	1.0
1N4732A	4.7	53	8.0	500	1.0	10	1.0
1N4733A	5.1	49	7.0	550	1.0	10	1.0
1N4734A	5.6	45	5.0	600	1.0	10	2.0
1N4735A	6.2	41	2.0	700	1.0	10	3.0
1N4736A	6.8	37	3.5	700	1.0	10	4.0
1N4737A	7.5	34	4.0	700	0.5	10	5.0
1N4738A	8.2	31	4.5	700	0.5	10	6.0
1N4739A	9.1	28	5.0	700	0.5	10	7.0
1N4740A	10	25	7.0	700	0.25	10	7.6
1N4741A	11	23	8.0	700	0.25	5.0	8.4
1N4742A	12	21	9.0	700	0.25	5.0	9.1
1N4743A	13	19	10	700	0.25	5.0	9.9
1N4744A	15	17	14	700	0.25	5.0	11.4
1N4745A	16	15.5	16	700	0.25	5.0	12.2
1N4746A	18	14	20	750	0.25	5.0	13.7
1N4747A	20	12.5	22	750	0.25	5.0	15.2
1N4748A	22	11.5	23	750	0.25	5.0	16.7
1N4749A	24	10.5	25	750	0.25	5.0	18.2
1N4750A	27	9.5	35	750	0.25	5.0	20.6
1N4751A	30	8.5	40	1000	0.25	5.0	22.8
1N4752A	33	7.5	45	1000	0.25	5.0	25.1
1N4753A	36	7.0	50	1000	0.25	5.0	27.4
1N4754A	39	6.5	60	1000	0.25	5.0	29.7
1N4755A	43	6.0	70	1500	0.25	5	32.7
1N4756A	47	5.5	80	1500	0.25	5	35.8
1N4757A	51	5.0	95	1500	0.25	5	38.8
1N4758A	56	4.5	110	2000	0.25	5	42.6
1N4759A	62	4.0	125	2000	0.25	5	47.14
1N4760A	68	3.7	150	2000	0.25	5	51.7
1N4761A	75	3.3	175	2000	0.25	5	56.0
1N4762A	82	3.0	200	2000	0.25	5	62.2
1N4763A	91	2.8	250	2000	0.25	5	69.2
1N4764A	100	2.5	350	2000	0.25	5	76.0

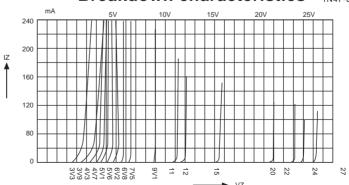
NOTE: Standard Zener Voltage Tolerance ± 5%

Admissible power dissipation versus ambient temperature Valid provided that leads are kept at ambient



## **Breakdown characteristics**

1N47-SERIES



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