



DC COMPONENTS CO., LTD.
RECTIFIER SPECIALISTS

**1N4728A
THRU
1N4761A**

TECHNICAL SPECIFICATIONS OF GLASS SILICON ZENER DIODES

VOLTAGE RANGE - 3.3 to 75 Volts

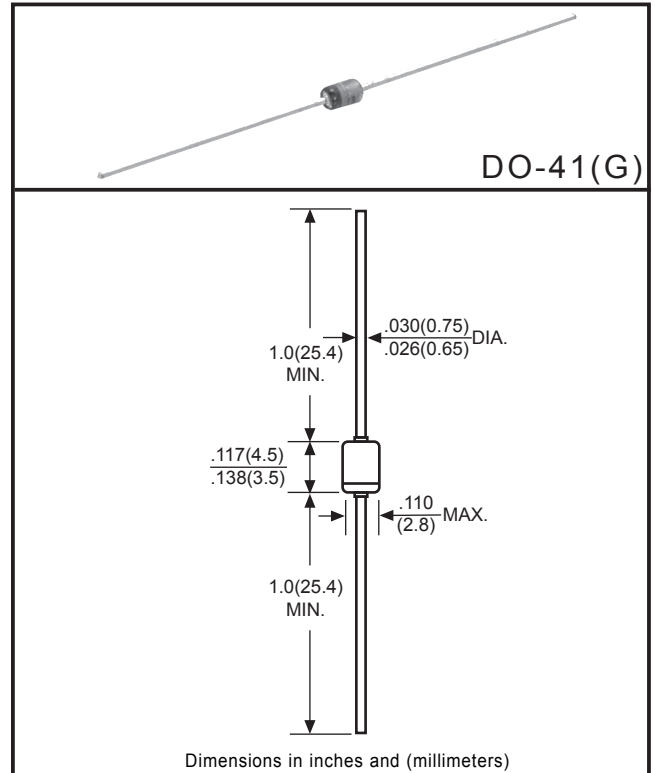
POWER - 1.0 Watt

FEATURES

- * Voltage range : 3.3V to 75V
- * 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, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

	SYMBOL	VALUE	UNITS
Zener Current See Table "Characterisitcs"			
Power Dissipation at TA = 25°C	P _{tot}	1.0 ⁽¹⁾	W
Junction Temperature	T _J	200	°C
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150	°C
Maximum Instantaneous Forward Voltage at IF = 200 mA	V _F	1.2	Volts
Typical Thermal Resistance Junction to Ambient Air	R _{θJA}	170	°C/W

Note 1 : Suffix "A" indicates Zener Voltage Tolerance ± 5%

RATING AND CHARACTERISTIC CURVES (1N4728A THRU 1N4761A)

FIG. 1
TYPICAL FORWARD CURRENT
DERATING CURVE

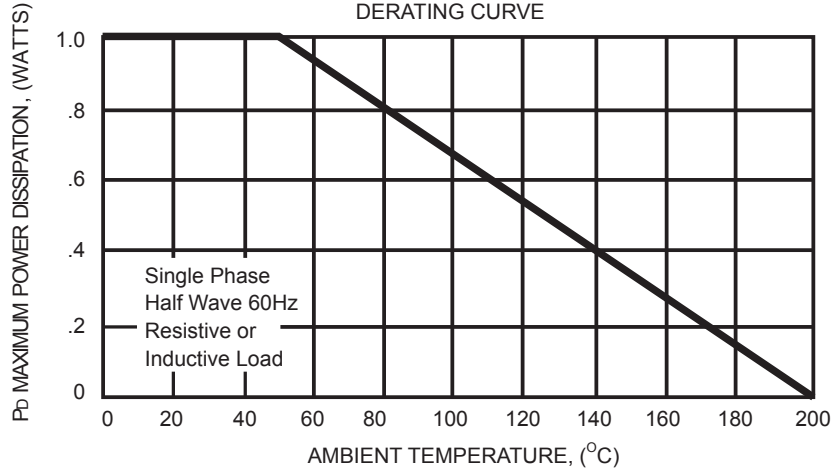


FIG. 2
TYPICAL THERMAL RESISTANCE
LEAD LENGTH

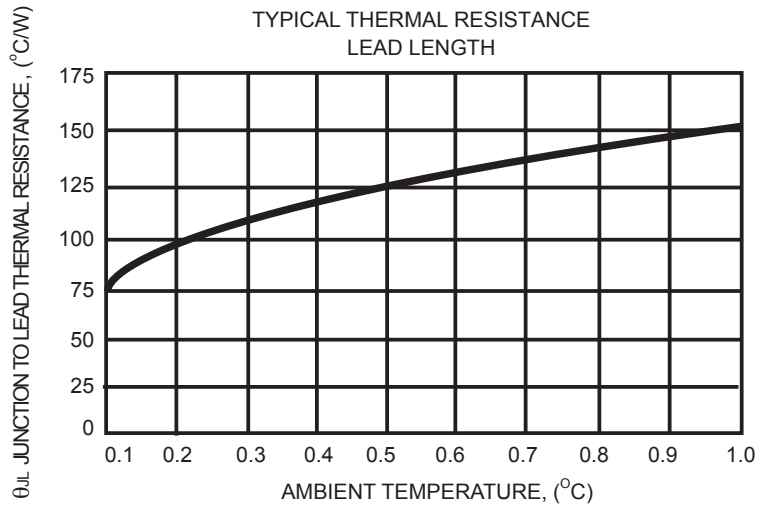
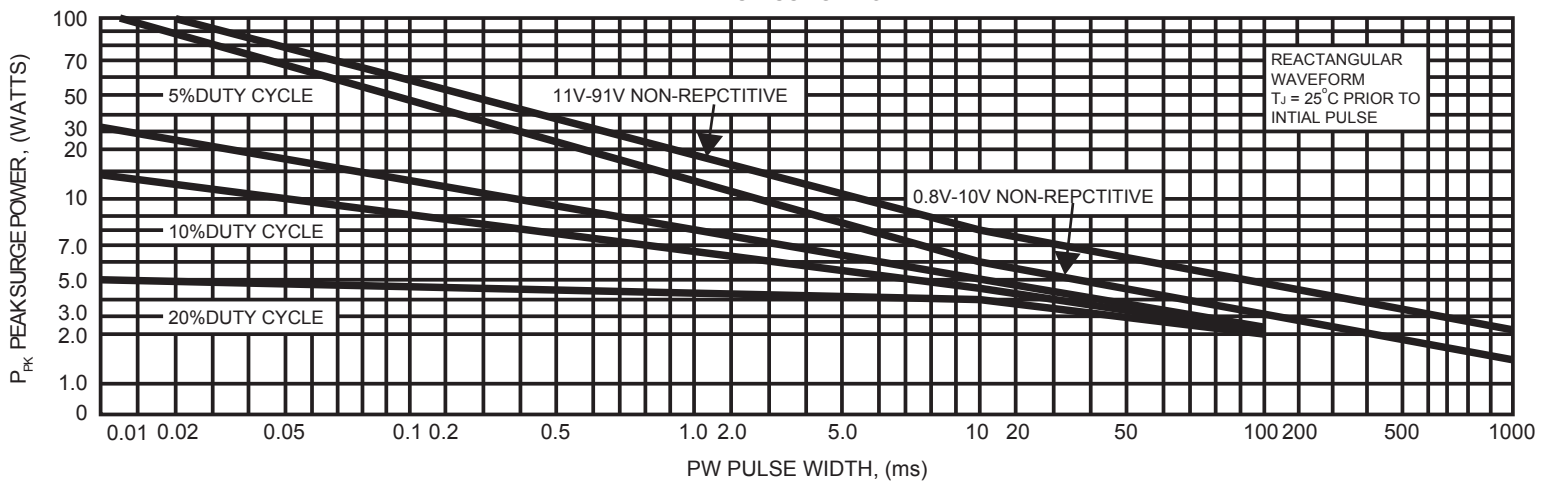


FIG. 3
MAXIMUM SURGE POWER



RATING AND CHARACTERISTIC CURVES (1N4728A THRU 1N4761A)

TYPE	Nominal Zener Voltage	Zener Test Current	Maximum Zener Impedance		IZK	Maximum Reverse Leakage Current	
	VZ@IZT	IZT	ZZT@IZT	ZZT@IZK		IR	@VR
	Volts	mA	Ohms	Ohms	mA	µA	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	5.0	32.7
1N4756A	47	5.5	80	1500	0.25	5.0	35.8
1N4757A	51	5.0	95	1500	0.25	5.0	38.8
1N4758A	56	4.5	110	2000	0.25	5.0	42.6
1N4759A	62	4.0	125	2000	0.25	5.0	47.1
1N4760A	68	3.7	150	2000	0.25	5.0	51.7
1N4761A	75	3.3	175	2000	0.25	5.0	56.0

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