

RoHS
Compliant



Features

- Low profile package
- Built-in strain relief
- Low inductance
- High temperature soldering : 260°C/10 seconds at terminals
- Glass package has Underwriters Laboratory Flammability Classification

Specifications

Reverse Voltage	: 3.3 Volts to 75 Volts
Forward Current	: 1 Watts
Case	: Molded Glass DO-41G
Terminals	: Axial leads, solderable per MIL-STD-750, Method 2026 guaranteed
Polarity	: Colour band denotes positive end
Mounting position	: Any
Weight	: 0.012 ounce, 0.336 gram

Ratings at 25°C ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Power Dissipation at T _{AMB} =25°C	P _{tot}	1*	W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-65 to +200	

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction Ambient Air	R _{θJA}	-	-	170*	K/W
Forward Voltage at I _F =200mA	V _F	-	-	1.2	V

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

Specification Table

Nominal Zener Voltage			Max. Zener Impedance				Maximum Leakage Current		Part Number
V _Z @ I _{ZT}			Z _{zT} @ I _{ZT}		Z _{zT} @ I _{ZK}		I _R @ V _R		
Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
3.3	3.14	3.47	10	76	400	1	100	1	1N4728A
3.6	3.42	3.78	10	69	400	1	100	1	1N4729A
3.9	3.71	4.1	9	64	400	1	50	1	1N4730A
4.3	4.09	4.52	9	58	400	1	10	1	1N4731A
4.7	4.47	4.94	8	53	500	1	10	1	1N4732A
5.1	4.85	5.36	7	49	550	1	10	1	1N4733A
5.6	5.32	5.88	5	45	600	1	10	2	1N4734A
6.2	5.89	6.51	2	41	700	1	10	3	1N4735A

Nominal Zener Voltage			Max. Zener Impedance				Maximum Leakage Current		Part Number
Vz @ IzT			ZzT @ IzT		ZzT @ IzK		IR @ VR		
Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
6.8	6.46	7.14	3.5	37	700	1	10	4	1N4736A
7.5	7.13	7.88	4	34	700	0.5	10	5	1N4737A
8.2	7.79	8.61	4.5	31	700	0.5	10	6	1N4738A
9.1	8.65	9.56	5	28	700	0.5	10	7	1N4739A
10	9.5	10.5	7	25	700	0.25	10	7.6	1N4740A
11	10.45	11.55	8	23	700	0.25	5	8.4	1N4741A
12	11.4	12.6	9	21	700	0.25	5	9.1	1N4742A
13	12.35	13.65	10	19	700	0.25	5	9.9	1N4743A
15	14.25	15.75	14	17	700	0.25	5	11.4	1N4744A
16	15.2	16.8	16	15.5	700	0.25	5	12.2	1N4745A
18	17.1	18.9	20	14	750	0.25	5	13.7	1N4746A
20	19	21	22	12.5	750	0.25	5	15.2	1N4747A
22	20.9	23.1	23	11.5	750	0.25	5	16.7	1N4748A
24	22.8	25.2	25	10.5	750	0.25	5	18.2	1N4749A
27	25.65	28.35	35	9.5	750	0.25	5	20.6	1N4750A
30	28.5	31.5	40	8.5	1000	0.25	5	22.8	1N4751A
33	31.35	34.65	45	7.5	1000	0.25	5	25.1	1N4752A
36	34.2	37.8	50	7	1000	0.25	5	27.4	1N4753A
39	37.05	40.95	60	6.5	1000	0.25	5	29.7	1N4754A
43	40.85	45.15	70	6	1500	0.25	0.1	32.7	1N4755A
47	44.65	49.35	80	5.5	1500	0.25	0.1	35.8	1N4756A
51	48.45	53.55	95	5	1500	0.25	0.1	38.8	1N4757A
56	53.2	58.8	110	4.5	2000	0.25	0.1	42.6	1N4758A
62	58.9	65.1	125	4	2000	0.25	0.1	47.1	1N4759A
68	64.6	71.4	150	3.7	2000	0.25	0.1	51.7	1N4760A
75	71.25	78.75	175	3.3	2000	0.25	-	-	1N4761A

Rating and Characteristic Curves

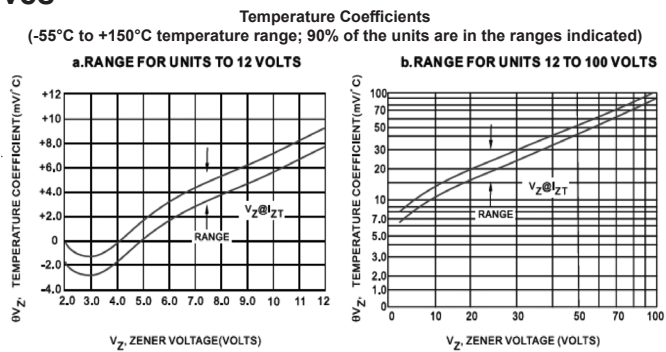
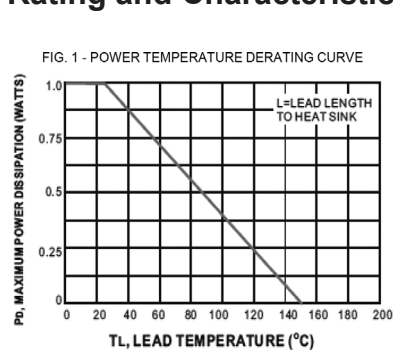


FIG. 3 - TYPICAL THERMAL RESISTANCE versus LEAD LENGTH

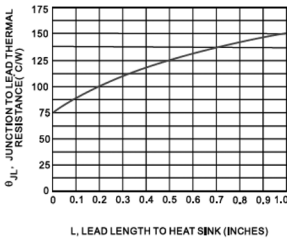


FIG. 4 - EFFECT OF ZENER CURRENT

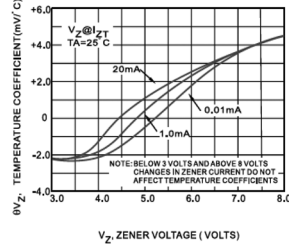
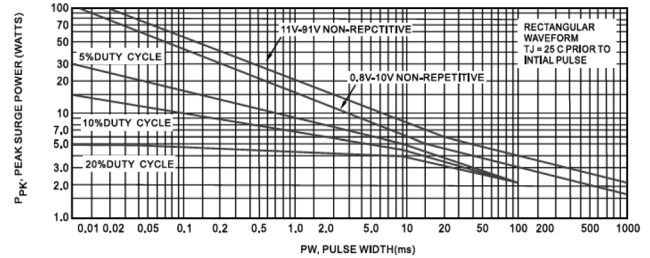


FIG. 5 - MAXIMUM SURGE POWER



This graph represents 90 percentile data points.
FOR worst-case design characteristics, multiply surge power by 2/3

FIG. 6 - EFFECT OF ZENER CURRENT ON ZENER IMPEDANCE

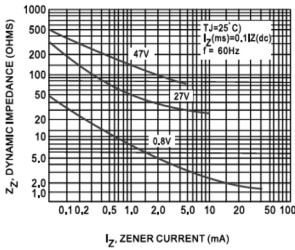


FIG. 7 - EFFECT OF ZENER VOLTAGE ON ZENER

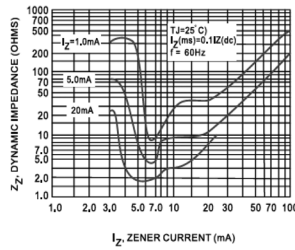


FIG. 8 - TYPICAL LEAKAGE CURRENT

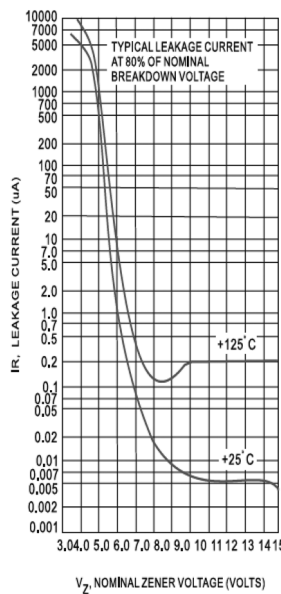


FIG. 9 - TYPICAL CAPACITANCE versus V_Z

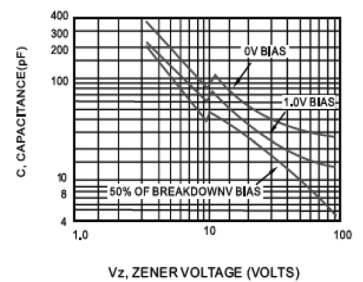
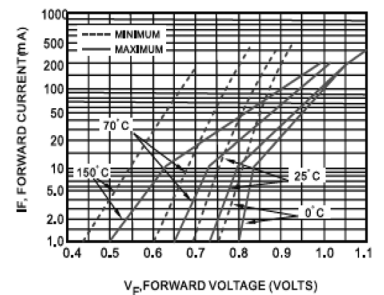
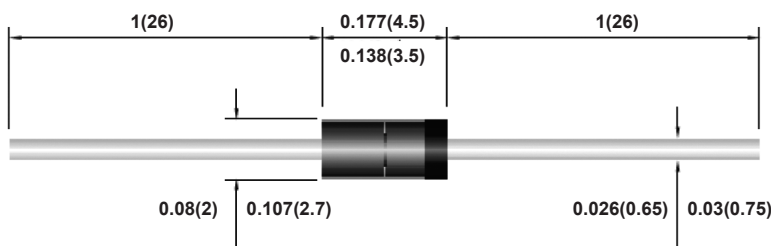


FIG. 10 - TYPICAL FORWARD CHARACTERISTICS



Diagram



Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.