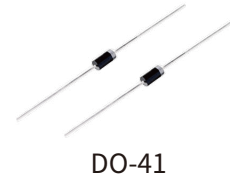


FEATURES

- | Glass passivated chip
- | Built-in strain relief
- | Low inductance
- | High peak reverse power dissipation
- | Low reverse leakage
- | For use in stabilizing and clipping with high power rating



MECHANICAL DATA

- | Case: DO-41 Molded plastic
- | Polarity: Color band denotes cathode end
- | Mounting position: Any

APPROVALS

RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
DC Power dissipation at $T_L = 75^{\circ}\text{C}^{(1)}$	P_D	1.0	W
Maximum forward voltage at $I_F=200\text{mA}$	V_F	1.2	V
Junction temperature range	T_J	-55 to +150	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 to +150	$^{\circ}\text{C}$

Note:

(1) T_L =Lead temperature at 3/8" (9.5mm) from body

ELECTRICAL CHARACTERISTICS

Part Number	Device Marking Code	Nominal Zener Voltage @I _T			I _{ZT} (mA)	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
		V _{Z AVE.} (V)	V _{Z MIN.} (V)	V _{Z MAX.} (V)		Z _{ZT MAX.} (Ω) @I _{ZT}	Z _{ZK MAX.} (Ω) @I _{ZK}	I _{ZK} (mA)	I _R (μA) @V _R	V _R (V)	
1N4728A	1N4728A	3.3	3.14	3.47	76.0	10.0	400	1.00	100.0	1.0	274.0
1N4729A	1N4729A	3.6	3.42	3.78	69.0	10.0	400	1.00	100.0	1.0	251.0
1N4730A	1N4730A	3.9	3.71	4.10	64.0	9.0	400	1.00	50.0	1.0	232.0
1N4731A	1N4731A	4.3	4.09	4.52	58.0	9.0	400	1.00	10.0	1.0	210.0
1N4732A	1N4732A	4.7	4.47	4.94	53.0	8.0	500	1.00	10.0	1.0	192.0
1N4733A	1N4733A	5.1	4.85	5.36	49.0	7.0	550	1.00	10.0	1.0	177.0
1N4734A	1N4734A	5.6	5.32	5.88	45.0	5.0	600	1.00	10.0	2.0	161.0
1N4735A	1N4735A	6.2	5.89	6.51	41.0	2.0	700	1.00	10.0	3.0	146.0
1N4736A	1N4736A	6.8	6.46	7.14	37.0	3.5	700	1.00	10.0	4.0	133.0
1N4737A	1N4737A	7.5	7.13	7.88	34.0	4.0	700	0.50	10.0	5.0	121.0
1N4738A	1N4738A	8.2	7.79	8.61	31.0	4.5	700	0.50	10.0	6.0	110.0
1N4739A	1N4739A	9.1	8.65	9.56	28.0	5.0	700	0.50	10.0	7.0	100.0
1N4740A	1N4740A	10.0	9.50	10.50	25.0	7.0	700	0.25	10.0	7.6	91.0
1N4741A	1N4741A	11.0	10.45	11.55	23.0	8.0	700	0.25	0.5	8.4	83.0
1N4742A	1N4742A	12.0	11.40	12.60	21.0	9.0	700	0.25	0.5	9.1	76.0
1N4743A	1N4743A	13.0	12.35	13.65	19.0	10.0	700	0.25	0.5	9.9	69.0
1N4744A	1N4744A	15.0	14.25	15.75	17.0	14.0	700	0.25	0.5	11.4	61.0
1N4745A	1N4745A	16.0	15.20	16.80	15.5	16.0	700	0.25	0.5	12.2	57.0
1N4746A	1N4746A	18.0	17.10	18.90	14.0	20.0	750	0.25	0.5	13.7	50.0
1N4747A	1N4747A	20.0	19.00	21.00	12.5	22.0	750	0.25	0.5	15.2	45.0
1N4748A	1N4748A	22.0	20.90	23.10	11.5	23.0	750	0.25	0.5	16.7	41.0
1N4749A	1N4749A	24.0	22.80	25.20	10.5	25.0	750	0.25	0.5	18.2	38.0
1N4750A	1N4750A	27.0	25.65	28.35	9.5	35.0	750	0.25	0.5	20.6	34.0
1N4751A	1N4751A	30.0	28.50	31.50	8.5	40.0	1000	0.25	0.5	22.8	30.0
1N4752A	1N4752A	33.0	31.35	34.65	7.5	45.0	1000	0.25	0.5	25.1	27.0
1N4753A	1N4753A	36.0	34.20	37.80	7.0	50.0	1000	0.25	0.5	27.4	25.0
1N4754A	1N4754A	39.0	37.05	40.95	6.5	60.0	1000	0.25	0.5	29.7	23.0
1N4755A	1N4755A	43.0	40.85	45.15	6.0	70.0	1500	0.25	0.5	32.7	22.0
1N4756A	1N4756A	47.0	44.65	49.35	5.5	80.0	1500	0.25	0.5	35.8	19.0
1N4757A	1N4757A	51.0	48.45	53.55	5.0	95.0	1500	0.25	0.5	38.8	18.0
1N4758A	1N4758A	56.0	53.20	58.80	4.5	110	2000	0.25	0.5	42.6	16.0
1N4759A	1N4759A	62.0	58.90	65.10	4.0	125	2000	0.25	0.5	47.1	14.0
1N4760A	1N4760A	68.0	64.60	71.40	3.7	150	2000	0.25	0.5	51.7	13.0

Part Number	Device Marking Code	Nominal Zener Voltage @ I_T			I_{ZT} (mA)	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
		$V_{ZAVE.}$ (V)	$V_{ZMIN.}$ (V)	$V_{ZMAX.}$ (V)		$Z_{ZT MAX.}$ (Ω) @ I_{ZT}	$Z_{ZK MAX.}$ (Ω) @ I_{ZK}	I_{ZK} (mA)	I_R (μ A) @ V_R	V_R (V)	
1N4761A	1N4761A	75.0	71.25	78.75	3.3	175	2000	0.25	0.5	56.0	12.0
1N4762A	1N4762A	82.0	77.90	86.10	3.0	200	3000	0.25	0.5	62.2	11.0
1N4763A	1N4763A	91.0	86.45	95.55	2.8	250	3000	0.25	0.5	69.2	10.0
1N4764A	1N4764A	100.0	95.0	105.0	2.5	350	3000	0.25	0.5	76.0	9.0
1N4765A	1N4765A	110.0	104.5	115.5	2.3	450	4000	0.25	0.5	83.6	8.6
1N4766A	1N4766A	120.0	114.0	126.0	2.0	550	4500	0.25	0.5	91.2	7.8
1N4767A	1N4767A	130.0	123.5	136.5	1.90	700	5000	0.25	0.5	98.8	7.0
1N4768A	1N4768A	150.0	142.5	157.5	1.70	1000	6000	0.25	0.5	114.0	6.4
1N4769A	1N4769A	160.0	152.0	168.0	1.60	1100	6500	0.25	0.5	121.6	5.8
1N4770A	1N4770A	180.0	171.0	189.0	1.40	1200	7000	0.25	0.5	136.8	5.2
1N4771A	1N4771A	200.0	190.0	210.0	1.20	1900	9990	0.25	0.5	152.0	4.7
1N4772A	1N4772A	220.0	209.0	231.0	1.00	2500	9000	0.25	0.5	167.2	4.0
1N4773A	1N4773A	250.0	237.5	262.5	0.90	3000	9000	0.25	0.5	190.0	3.6
1N4774A	1N4774A	300.0	285.0	315.0	0.80	3500	9500	0.25	0.5	228.0	3.0
1N4775A	1N4775A	330.0	313.5	346.5	0.75	4500	9500	0.25	0.5	245.0	2.7
1N4776A	1N4776A	350.0	332.5	367.5	0.70	5000	9500	0.25	0.5	275.0	2.5

CHARACTERISTIC CURVES

Fig.1-Power Temperature Derating Curve

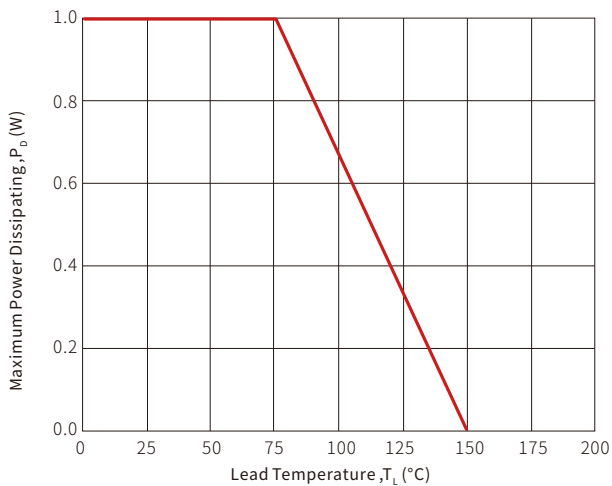


Fig.2-Temperature Coefficients v.s. Zener Voltage

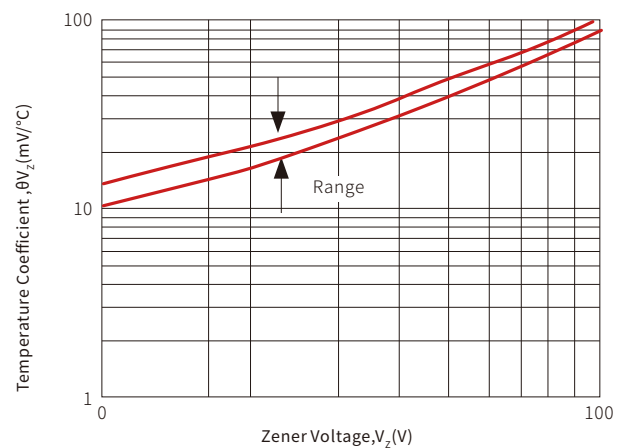
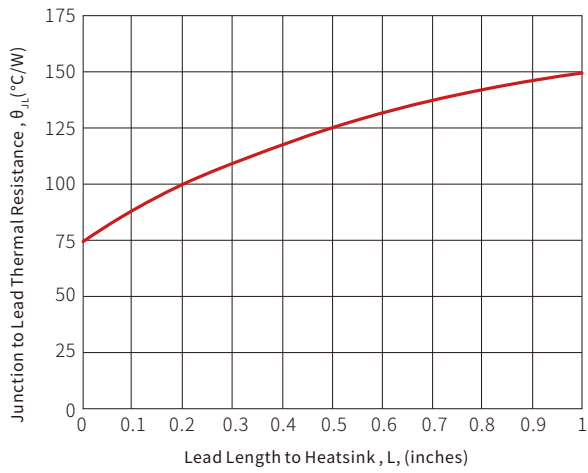
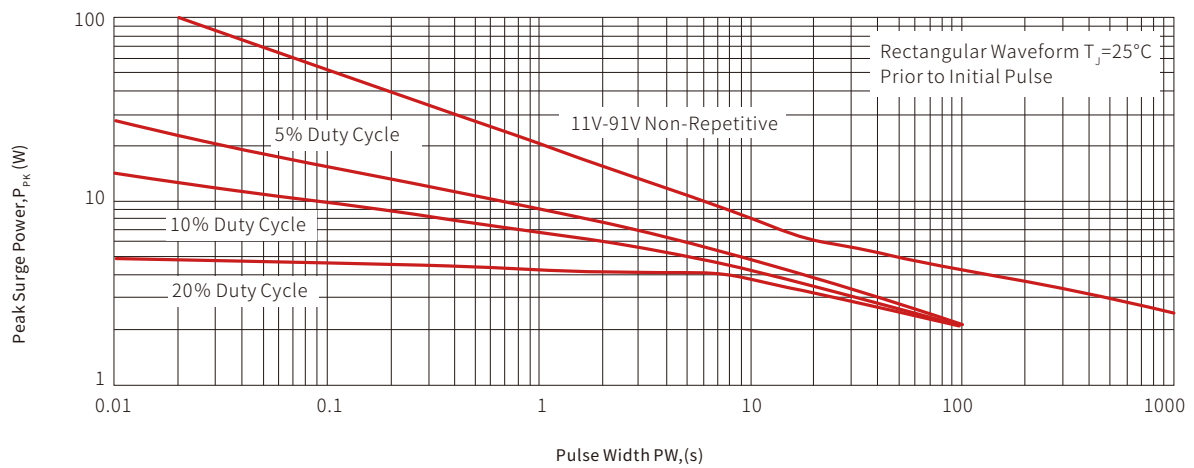
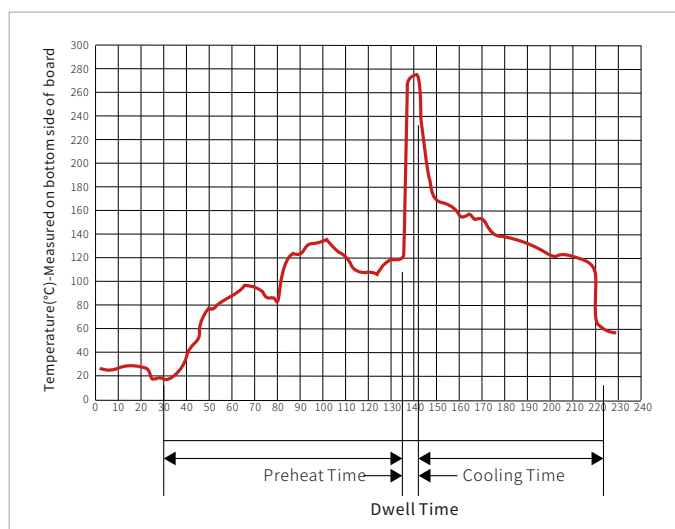


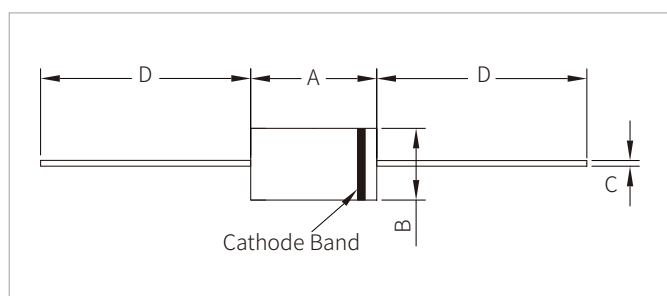
Fig.3-Typical thermal Resistance v.s, Lead Length

Fig.4-Maximum Surge Power


WAVE SOLDERING



Wave Parameter		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solder pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds

DO-41 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	4.10	5.20	0.160	0.205
B	2.00	2.70	0.080	0.107
C	0.71	0.86	0.028	0.034
D	25.40	-	1.000	-

ORDERING INFORMATION

Part Number	Component Package	Per Carton	Description
1N47xxA	DO-41	5000pcs	Box

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Website



Wechat

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