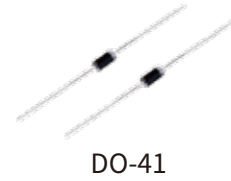


## FEATURES

- | 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
- | Meet AEC-Q101 Requirements



## MECHANICAL DATA

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

## APPROVALS

<b>RoHS</b>	Compliance with 2011/65/EU
<b>HF</b>	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 $I_F=0.2\text{A}$	$V_F$	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 <sub>T</sub>			I <sub>ZT</sub> (mA)	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
		V <sub>Z AVE.</sub> (V)	V <sub>Z MIN.</sub> (V)	V <sub>Z MAX.</sub> (V)		Z <sub>ZT MAX.</sub> (Ω) @I <sub>ZT</sub>	Z <sub>ZK MAX.</sub> (Ω) @I <sub>ZK</sub>	I <sub>ZK</sub> (mA)	I <sub>R</sub> (μA) @V <sub>R</sub>	V <sub>R</sub> (V)	
T1N4728AQ	T1N4728A	3.3	3.14	3.47	76.0	10.0	400	1.00	100.0	1.0	274.0
T1N4729AQ	T1N4729A	3.6	3.42	3.78	69.0	10.0	400	1.00	100.0	1.0	251.0
T1N4730AQ	T1N4730A	3.9	3.71	4.10	64.0	9.0	400	1.00	50.0	1.0	232.0
T1N4731AQ	T1N4731A	4.3	4.09	4.52	58.0	9.0	400	1.00	10.0	1.0	210.0
T1N4732AQ	T1N4732A	4.7	4.47	4.94	53.0	8.0	500	1.00	10.0	1.0	192.0
T1N4733AQ	T1N4733A	5.1	4.85	5.36	49.0	7.0	550	1.00	10.0	1.0	177.0
T1N4734AQ	T1N4734A	5.6	5.32	5.88	45.0	5.0	600	1.00	10.0	2.0	161.0
T1N4735AQ	T1N4735A	6.2	5.89	6.51	41.0	2.0	700	1.00	10.0	3.0	146.0
T1N4736AQ	T1N4736A	6.8	6.46	7.14	37.0	3.5	700	1.00	10.0	4.0	133.0
T1N4737AQ	T1N4737A	7.5	7.13	7.88	34.0	4.0	700	0.50	10.0	5.0	121.0
T1N4738AQ	T1N4738A	8.2	7.79	8.61	31.0	4.5	700	0.50	10.0	6.0	110.0
T1N4739AQ	T1N4739A	9.1	8.65	9.56	28.0	5.0	700	0.50	10.0	7.0	100.0
T1N4740AQ	T1N4740A	10.0	9.50	10.50	25.0	7.0	700	0.25	10.0	7.6	91.0
T1N4741AQ	T1N4741A	11.0	10.45	11.55	23.0	8.0	700	0.25	0.5	8.4	83.0
T1N4742AQ	T1N4742A	12.0	11.40	12.60	21.0	9.0	700	0.25	0.5	9.1	76.0
T1N4743AQ	T1N4743A	13.0	12.35	13.65	19.0	10.0	700	0.25	0.5	9.9	69.0
T1N4744AQ	T1N4744A	15.0	14.25	15.75	17.0	14.0	700	0.25	0.5	11.4	61.0
T1N4745AQ	T1N4745A	16.0	15.20	16.80	15.5	16.0	700	0.25	0.5	12.2	57.0
T1N4746AQ	T1N4746A	18.0	17.10	18.90	14.0	20.0	750	0.25	0.5	13.7	50.0
T1N4747AQ	T1N4747A	20.0	19.00	21.00	12.5	22.0	750	0.25	0.5	15.2	45.0
T1N4748AQ	T1N4748A	22.0	20.90	23.10	11.5	23.0	750	0.25	0.5	16.7	41.0
T1N4749AQ	T1N4749A	24.0	22.80	25.20	10.5	25.0	750	0.25	0.5	18.2	38.0
T1N4750AQ	T1N4750A	27.0	25.65	28.35	9.5	35.0	750	0.25	0.5	20.6	34.0
T1N4751AQ	T1N4751A	30.0	28.50	31.50	8.5	40.0	1000	0.25	0.5	22.8	30.0
T1N4752AQ	T1N4752A	33.0	31.35	34.65	7.5	45.0	1000	0.25	0.5	25.1	27.0
T1N4753AQ	T1N4753A	36.0	34.20	37.80	7.0	50.0	1000	0.25	0.5	27.4	25.0
T1N4754AQ	T1N4754A	39.0	37.05	40.95	6.5	60.0	1000	0.25	0.5	29.7	23.0
T1N4755AQ	T1N4755A	43.0	40.85	45.15	6.0	70.0	1500	0.25	0.5	32.7	22.0
T1N4756AQ	T1N4756A	47.0	44.65	49.35	5.5	80.0	1500	0.25	0.5	35.8	19.0
T1N4757AQ	T1N4757A	51.0	48.45	53.55	5.0	95.0	1500	0.25	0.5	38.8	18.0
T1N4758AQ	T1N4758A	56.0	53.20	58.80	4.5	110	2000	0.25	0.5	42.6	16.0
T1N4759AQ	T1N4759A	62.0	58.90	65.10	4.0	125	2000	0.25	0.5	47.1	14.0
T1N4760AQ	T1N4760A	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 <sub>T</sub>			I <sub>ZT</sub> (mA)	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
		V <sub>Z.AVE.</sub> (V)	V <sub>Z.MIN.</sub> (V)	V <sub>Z.MAX.</sub> (V)		Z <sub>ZT.MAX.</sub> (Ω) @I <sub>ZT</sub>	Z <sub>ZK.MAX.</sub> (Ω) @I <sub>ZK</sub>	I <sub>ZK</sub> (mA)	I <sub>R</sub> (μA)@V <sub>R</sub>	V <sub>R</sub> (V)	
T1N4761AQ	T1N4761A	75.0	71.25	78.75	3.3	175	2000	0.25	0.5	56.0	12.0
T1N4762AQ	T1N4762A	82.0	77.90	86.10	3.0	200	3000	0.25	0.5	62.2	11.0
T1N4763AQ	T1N4763A	91.0	86.45	95.55	2.8	250	3000	0.25	0.5	69.2	10.0
T1N4764AQ	T1N4764A	100.0	95.0	105.0	2.5	350	3000	0.25	0.5	76.0	9.0
T1N4765AQ	T1N4765A	110.0	104.5	115.5	2.3	450	4000	0.25	0.5	83.6	8.6
T1N4766AQ	T1N4766A	120.0	114.0	126.0	2.0	550	4500	0.25	0.5	91.2	7.8
T1N4767AQ	T1N4767A	130.0	123.5	136.5	1.90	900	5000	0.25	0.5	98.8	7.0
T1N4768AQ	T1N4768A	150.0	142.5	157.5	1.70	1100	5000	0.25	0.5	114.0	6.4
T1N4769AQ	T1N4769A	160.0	152.0	168.0	1.60	1300	5000	0.25	0.5	121.6	5.8
T1N4770AQ	T1N4770A	180.0	171.0	189.0	1.40	1500	7000	0.25	0.5	136.8	5.2
T1N4771AQ	T1N4771A	200.0	190.0	210.0	1.20	2000	8000	0.25	0.5	152.0	4.7
T1N4772AQ	T1N4772A	220.0	209.0	231.0	1.00	2500	9000	0.25	0.5	167.2	4.0
T1N4773AQ	T1N4773A	250.0	237.5	262.5	0.90	3000	9000	0.25	0.5	190.0	3.6
T1N4774AQ	T1N4774A	300.0	285.0	315.0	0.80	3500	9500	0.25	0.5	228.0	3.0
T1N4775AQ	T1N4775A	330.0	313.5	346.5	0.75	4500	9500	0.25	0.5	245.0	2.7
T1N4776AQ	T1N4776A	350.0	332.5	367.5	0.70	5000	9500	0.25	0.5	275.0	2.5

## CHARACTERISTIC CURVES

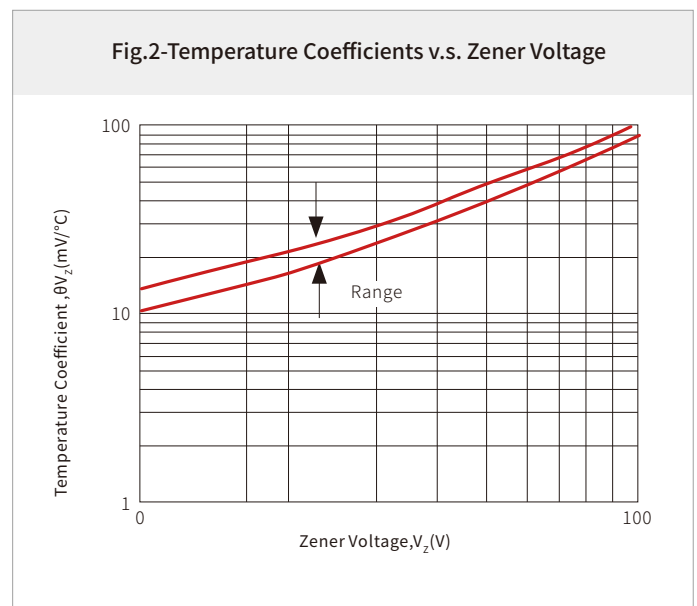
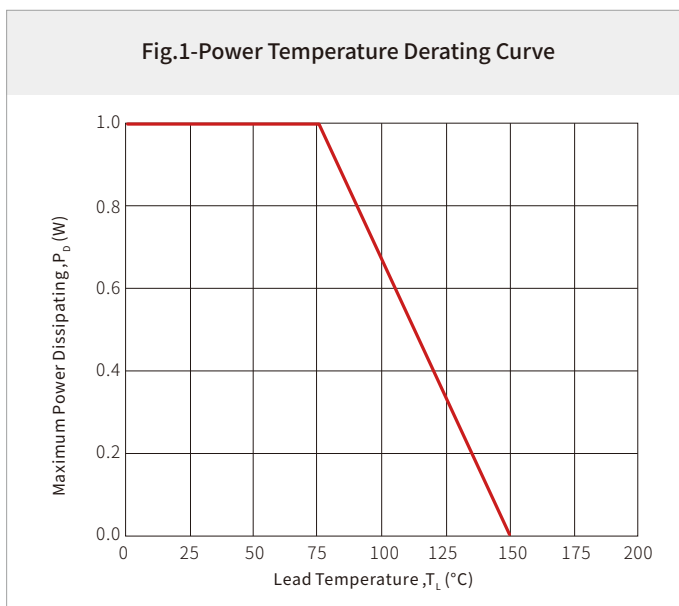


Fig.3-Typical thermal Resisttance v.s, Lead Length

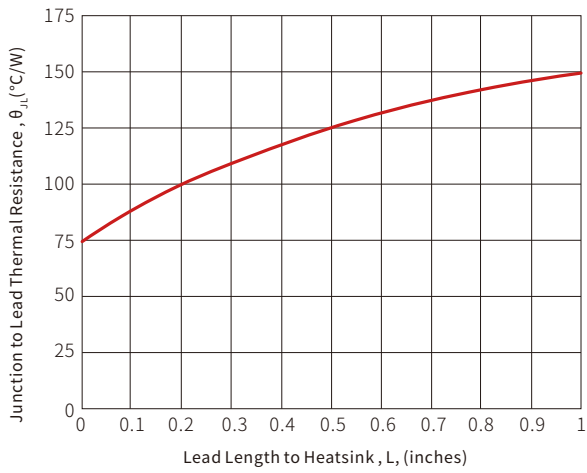
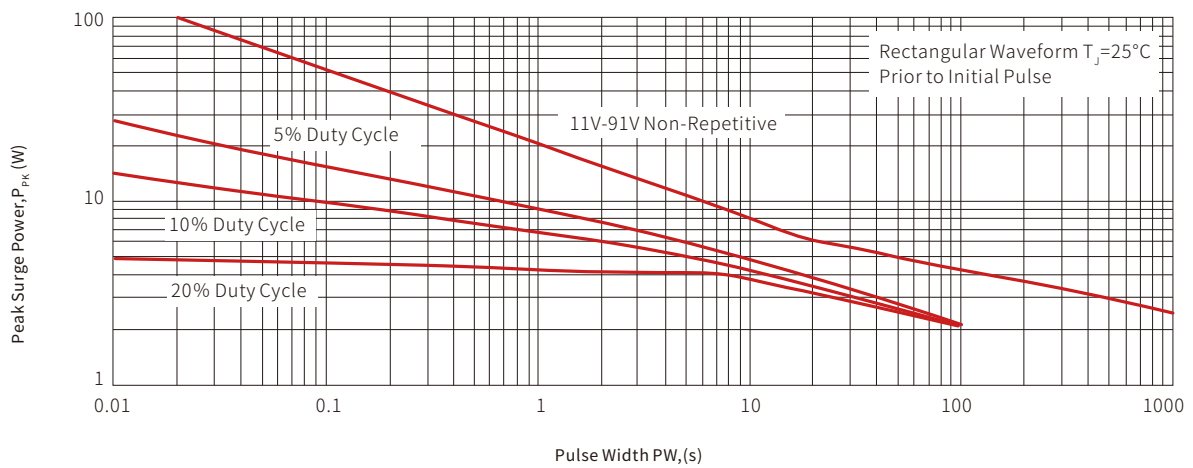
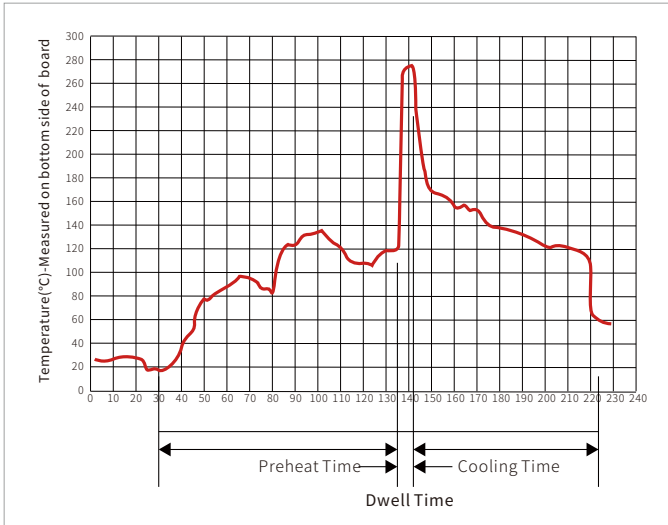


Fig.4-Maximum Surge Power

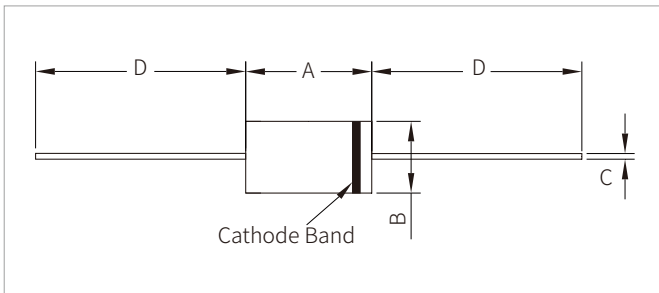


## WAVE SOLDERING



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
T1N47xxAQ	DO-41	5000pcs	Box

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201000

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