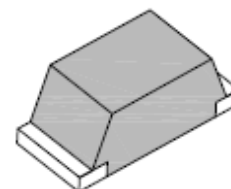


2 Terminal 1W Zener Diodes

Features

- 1W Power Dissipation
- Batch Process Design, Ideally suited for Automated Process Assembly
- Small Package Size for High Density Applications
- Zener Voltage from 3.3V to 330V
- Lead-Free parts Meet MIL-STD-19500/228
- RoHS Compliance



MFP



Mechanical Data

Case:	MFP, Molded plastic
Terminals:	Plated leads, solderable per MIL-STD-750, Method 2026
Epoxy:	UL94-V0 rated flame retardant
Weight:	0.018 gram

Maximum Ratings *(T_{Ambient}=25°C unless noted otherwise)*

Symbol	Description	Value	Unit	Conditions
P_D	Power Dissipation above 25°C	1	W	T _L =75 °C
V_F	Forward Voltage	Max. 1.2	V	I _F =200mA
T_J	Range of Junction Temperature	-55 to +150	°C	
T_{STG}	Storage Temperature Range	-65 to +175	°C	

2 Terminal 1W Zener Diodes

MFPZ4728A - MFPZ4777A

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

P/N	Nominal Zener Voltage				Maximum Zener Impedance			Maximum Reverse Leakage Current	
	$V_Z @ I_{ZT}$				$Z_{ZT} @ I_{ZT}$	$Z_{zk} @ I_{zk}$		$I_R @ V_R$	
	Nom. V_Z	Min. V_Z	Max. V_Z	I_{ZT} (mA)	Ω	Ω	mA	μA	V_R
MFPZ4728A	3.3	3.1	3.5	76	10	400	1	100	1
MFPZ4729A	3.6	3.4	3.8	69	10	400	1	100	1
MFPZ4730A	3.9	3.7	4.1	64	9	400	1	50	1
MFPZ4731A	4.3	4.1	4.5	58	9	400	1	10	1
MFPZ4732A	4.7	4.5	4.9	53	8	500	1	10	1
MFPZ4733A	5.1	4.8	5.4	49	7	550	1	10	1
MFPZ4734A	5.6	5.3	5.9	45	5	600	1	10	2
MFPZ4735A	6.2	5.9	6.5	41	2	700	1	10	3
MFPZ4736A	6.8	6.5	7.1	37	3.5	700	1	10	4
MFPZ4737A	7.5	7.1	7.9	34	4	700	0.5	10	5
MFPZ4738A	8.2	7.8	8.6	31	4.5	700	0.5	10	6
MFPZ4739A	9.1	8.6	9.6	28	5	700	0.5	10	7
MFPZ4740A	10	9.5	10.5	25	7	700	0.25	10	7.6
MFPZ4741A	11	10.5	11.6	23	8	700	0.25	5	8.4
MFPZ4742A	12	11.4	12.6	21	9	700	0.25	5	9.1
MFPZ4743A	13	12.4	13.7	19	10	700	0.25	5	9.9
MFPZ4744A	15	14.3	15.8	17	14	700	0.25	5	11.4
MFPZ4745A	16	15.2	16.8	15.5	16	700	0.25	5	12.2
MFPZ4746A	18	17.1	18.9	14	20	750	0.25	5	13.7
MFPZ4747A	20	19	21	12.5	22	750	0.25	5	15.2
MFPZ4748A	22	20.9	23.1	11.5	23	750	0.25	5	16.7
MFPZ4749A	24	22.8	25.2	10.5	25	750	0.25	5	18.2
MFPZ4750A	27	25.7	28.4	9.5	35	750	0.25	5	20.6
MFPZ4751A	30	28.5	31.5	8.5	40	1000	0.25	5	22.8
MFPZ4752A	33	31.4	34.7	7.5	45	1000	0.25	5	25.4
MFPZ4753A	36	34.2	37.8	7	50	1000	0.25	5	27.4
MFPZ4754A	39	37.1	41	6.5	60	1000	0.25	5	29.7

2 Terminal 1W Zener Diodes

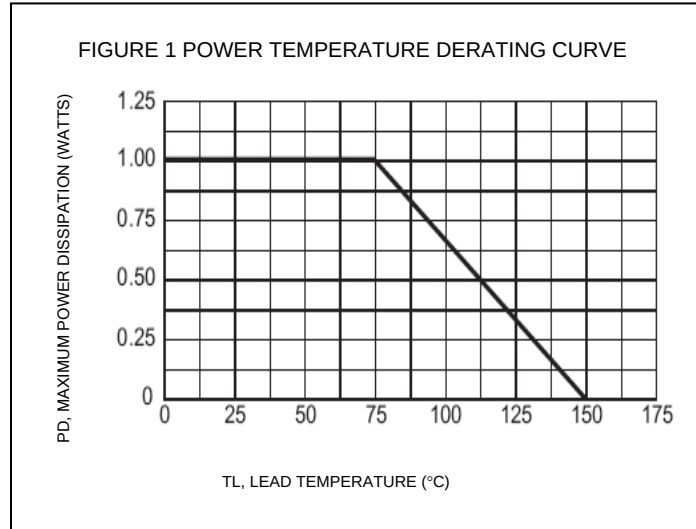
MFPZ4728A - MFPZ4777A

P/N	Nominal Zener Voltage				Maximum Zener Impedance			Maximum Reverse Leakage Current	
	$V_Z @ I_{ZT}$				$Z_{ZT} @ I_{ZT}$	$Z_{zk} @ I_{zk}$		$I_R @ V_R$	
	Nom. V_Z	Min. V_Z	Max. V_Z	I_{ZT} (mA)	Ω	Ω	mA	μA	V_R
MFPZ4755A	43	40.9	45.2	6	70	1500	0.25	0.1	32.7
MFPZ4756A	47	44.7	49.4	5.5	80	1500	0.25	0.1	35.8
MFPZ4757A	51	48.5	53.6	5	95	1500	0.25	0.1	38.8
MFPZ4758A	56	53.2	58.8	4.5	110	2000	0.25	0.1	42.6
MFPZ4759A	62	58.9	65.1	4	125	2000	0.25	0.1	47.1
MFPZ4760A	68	64.6	71.4	3.7	150	2000	0.25	0.1	51.7
MFPZ4761A	75	71.3	78.8	3.3	175	2000	0.25	0.1	56
MFPZ4762A	82	77.9	86.1	3	200	3000	0.25	0.1	62.2
MFPZ4763A	91	86.5	95.6	2.8	250	3000	0.25	0.1	69.2
MFPZ4764A	100	95	105	2.5	350	3000	0.25	0.1	76
MFPZ4765A	110	104.5	115.5	2.3	450	4000	0.25	0.1	83.6
MFPZ4766A	120	114	126	2	550	4500	0.25	0.1	91.2
MFPZ4767A	130	123.5	136.5	1.9	700	5000	0.25	0.1	98.8
MFPZ4768A	150	142.5	157.5	1.7	1000	6000	0.25	0.1	114
MFPZ4769A	160	152	168	1.6	1100	6500	0.25	0.1	121.6
MFPZ4770A	180	171	189	1.4	1200	7000	0.25	0.1	136.8
MFPZ4771A	200	190	210	1.2	1900	8000	0.25	0.1	152
MFPZ4772A	220	209	231	1	1600	8000	0.25	0.1	167.2
MFPZ4773A	240	228	252	0.9	1800	8500	0.25	0.1	182.4
MFPZ4774A	250	237.5	262.5	0.9	2000	9000	0.25	0.1	190
MFPZ4775A	270	256.5	283.5	0.8	2100	9000	0.25	0.1	205
MFPZ4776A	300	285	315	0.8	2300	9500	0.25	0.1	228
MFPZ4777A	330	313.5	346.5	0.7	2500	9500	0.25	0.1	250.2

2 Terminal 1W Zener Diodes

MFPZ4728A - MFPZ4777A

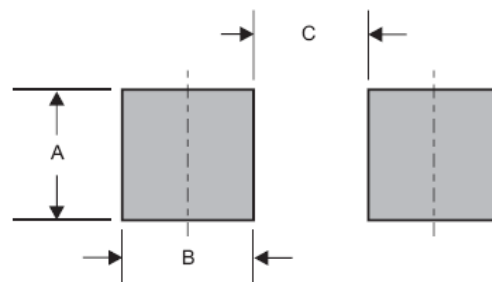
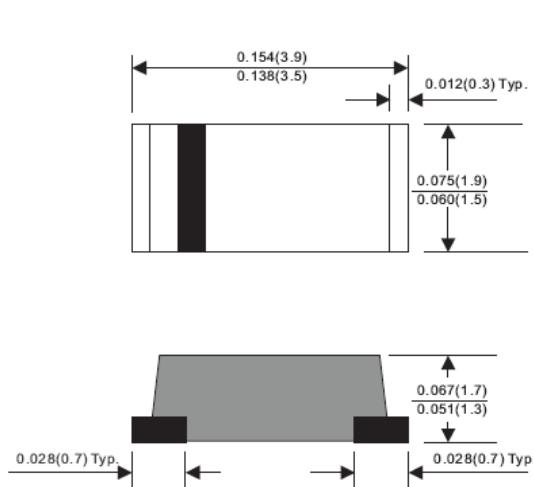
Rating and Characteristics Curves



Pinning Information

Pin	Simplified Outline	Symbol
Pin 1 Cathode Pin 2 Anode		

Package Dimension and Suggested Solder Pad Layout



Package	A	B	C
MFP	0.075(1.90)	0.055(1.40)	0.075(1.90)

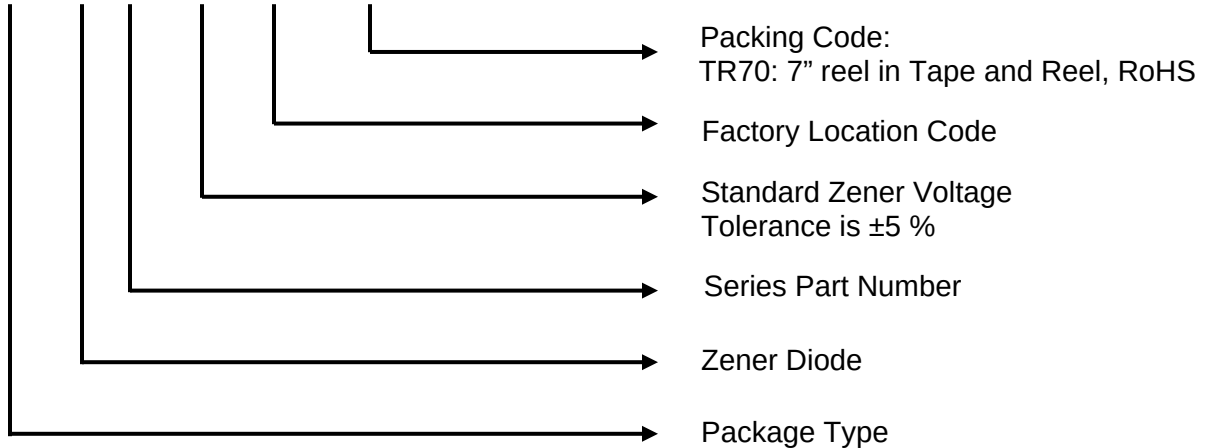
Dimensions in inches (millimeters)

2 Terminal 1W Zener Diodes

MFPZ4728A - MFPZ4777A

Ordering Information

MFP Z 4728 A - xx - TR70



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