

MTZJ Series

P_D : 500 mW

FEATURES :

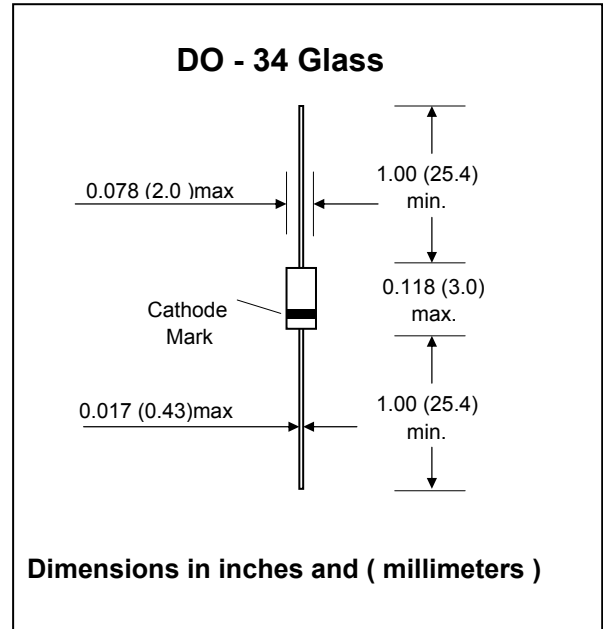
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current
- * Pb / RoHS Free

MECHANICAL DATA

Case: DO-34 Glass Case

Weight: approx. 0.093g

ZENER DIODES

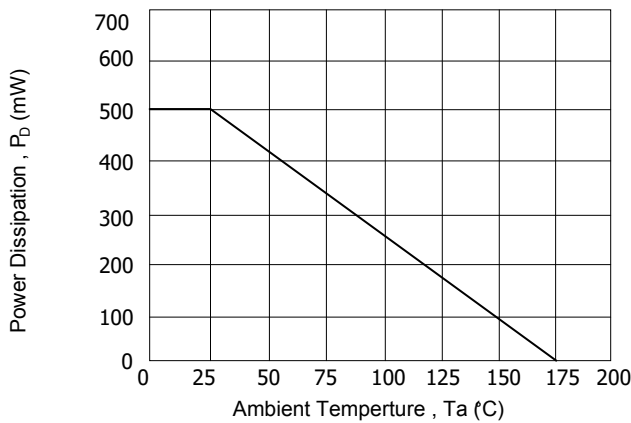


MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	500	mW
Junction Temperature	T_j	175	°C
Storage Temperature Range	T_{stg}	- 65 to + 175	°C

Fig 1. Derating Curve





ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified

Type	Zener Voltage $V_Z @ I_{ZT}$												Test Current I_{ZT} (mA)	Maximum Zener Impedance			Maximum Reverse Current	
	Suffix A			Suffix B			Suffix C			Suffix D				$Z_{ZT} @ I_{ZT}$ (Ω)	$Z_{ZK} @ I_{ZK}$ (Ω)	I_{ZK} (mA)	$I_R @ V_R$ (μA)	V_R (V)
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.						
	(V)	(V)	(V)	(V)	(V)	(V)	(V)	(V)	(V)	(V)	(V)	(V)						
MTZJ2.0	1.89	2.00	2.11	2.02	2.11	2.20	-	-	-	-	-	-	5	100	1000	0.5	120	0.5
MTZJ2.2	2.11	2.20	2.29	2.22	2.32	2.42	-	-	-	-	-	-	5	100	1000	0.5	120	0.7
MTZJ2.4	2.34	2.44	2.54	2.43	2.53	2.63	-	-	-	-	-	-	5	100	1000	0.5	120	1
MTZJ2.7	2.54	2.65	2.76	2.69	2.8	2.91	-	-	-	-	-	-	5	100	1000	0.5	100	1
MTZJ3.0	2.85	2.96	3.07	3.01	3.12	3.23	-	-	-	-	-	-	5	120	1000	0.5	50	1
MTZJ3.3	3.16	3.27	3.38	3.32	3.43	3.54	-	-	-	-	-	-	5	120	1000	0.5	20	1
MTZJ3.6	3.45	3.58	3.70	3.60	3.72	3.845	-	-	-	-	-	-	5	100	1000	1.0	10	1
MTZJ3.9	3.74	3.88	4.01	3.89	4.03	4.16	-	-	-	-	-	-	5	100	1000	1.0	5	1
MTZJ4.3	4.04	4.17	4.29	4.17	4.30	4.43	-	-	-	-	-	-	5	100	1000	1.0	5	1
MTZJ4.7	4.44	4.56	4.67	4.55	4.68	4.80	4.68	4.805	4.93	-	-	-	5	80	900	0.5	5	1
MTZJ5.1	4.81	4.94	5.06	4.94	5.07	5.20	5.08	5.23	5.37	-	-	-	5	70	1200	1.0	5	1.5
MTZJ5.6	5.11	5.42	5.55	5.45	5.59	5.72	5.61	5.76	5.90	-	-	-	5	40	900	1.0	5	2.5
MTZJ6.2	5.78	5.94	6.09	5.96	6.12	6.27	6.12	6.28	6.43	-	-	-	5	30	500	1.0	5	3
MTZJ6.8	6.33	6.46	6.62	6.49	6.66	6.82	6.66	6.84	7.01	-	-	-	5	20	150	0.5	2	3.5
MTZJ7.5	6.85	7.04	7.22	7.07	7.26	7.44	7.29	7.48	7.66	-	-	-	5	20	120	0.5	0.5	4
MTZJ8.2	7.53	7.73	7.92	7.79	8.00	8.20	8.03	8.24	8.44	-	-	-	5	20	120	0.5	0.5	5
MTZJ9.1	8.28	8.51	8.73	8.57	8.79	9.00	8.83	9.07	9.30	-	-	-	5	20	120	0.5	0.5	6
MTZJ10	9.13	9.36	9.59	9.41	9.66	9.90	9.70	9.95	10.19	9.94	10.20	10.45	5	20	120	0.5	0.2	7
MTZJ11	10.14	10.40	10.66	10.53	10.80	11.07	10.82	11.10	11.37	-	-	-	5	20	120	0.5	0.2	8
MTZJ12	11.11	11.40	11.68	11.40	11.70	11.99	11.70	12.00	12.30	-	-	-	5	25	110	0.5	0.2	9
MTZJ13	12.07	12.40	12.72	12.56	12.90	13.23	12.96	13.30	13.63	-	-	-	5	25	110	0.5	0.2	10
MTZJ14	12.75	13.20	13.43	13.24	13.60	13.95	13.65	14.00	14.40	-	-	-	5	25	110	0.5	0.2	10.5
MTZJ15	13.45	13.80	14.14	13.92	14.30	14.67	14.33	14.70	15.06	-	-	-	5	25	110	0.5	0.2	11
MTZJ16	14.82	15.20	15.58	15.21	15.60	15.99	15.69	16.10	16.50	-	-	-	5	25	150	0.5	0.2	12
MTZJ18	16.19	16.60	17.02	16.87	17.30	17.73	17.39	17.80	18.21	-	-	-	5	30	150	0.5	0.2	13
MTZJ20	18.04	18.50	18.96	18.62	19.10	19.58	19.21	19.70	20.19	19.70	20.20	20.71	5	30	200	0.5	0.2	15
MTZJ22	20.18	20.70	21.22	20.67	21.20	21.73	21.06	21.60	22.14	21.55	22.10	22.65	5	30	200	0.5	0.2	17
MTZJ24	22.04	22.60	23.17	22.62	23.20	23.78	23.11	23.70	24.29	23.60	24.20	24.81	5	35	200	0.5	0.2	19
MTZJ27	24.28	24.90	25.52	24.96	25.60	26.24	26.33	27.00	27.68	26.54	27.00	27.46	5	45	250	0.5	0.2	21
MTZJ30	27.01	27.70	28.39	27.69	28.40	29.11	28.37	29.10	29.83	29.06	29.80	30.55	5	55	250	0.5	0.2	23
MTZJ33	29.64	30.40	31.16	30.32	31.10	31.88	30.91	31.70	32.49	31.49	32.30	33.11	5	65	250	0.5	0.2	25
MTZJ36	32.18	33.00	33.83	32.76	33.60	34.44	33.44	34.30	35.16	34.03	34.90	35.77	5	75	250	0.5	0.2	27
MTZJ39	34.71	35.60	36.49	35.47	36.30	37.13	35.98	36.90	37.82	36.66	37.60	38.54	5	85	250	0.5	0.2	30

Note : 1. The Zener voltage is measured 40ms after power is supplied.

RATING AND CHARACTERISTIC CURVES (MTZJ Series)

Fig. 2 $V_Z - I_Z$ Characteristics

