



Micro Commercial Components

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**ERD3.3F
 THRU
 ERD75F**

**1000 mW
 Zener Diode
 3.3 to 75 Volts**

Features

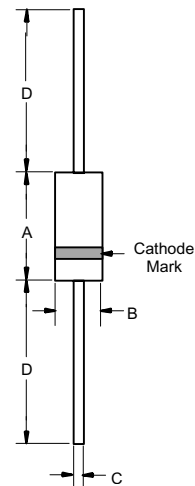
- DO-41 Glass sealed package
- Planar process
- High Reliability
- Marking : Cathode band and type number
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

Maximum Ratings

Symbol	Rating	Rating	Unit
I _F	Forward Current	200	mA
P _D	Power dissipation	1000	mW
T _J	Junction Temperature	175	°C
T _{STG}	Storage Temperature Range	-65 to +175	°C

Note: 1. Lead in Glass Solder Exemption Applied, see EU Directive Annex 5.

DO-41G



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	-----	0.177	-----	4.50	
B	-----	0.110	-----	2.80	Diameter
C	0.026	0.034	0.70	0.90	Diameter
D	1.000	-----	25.40	-----	

ERD3.3F thru ERD75F



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ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER		ZENER VOLTAGE $V_z @ I_{zT}$ VOLTS		TEST CURRENT I_{zT}	Dynamic Resistance Z_{zt} (Max.)		REVERSE CURRENT I_R (Max.)	
Type	Suffix	Min	Max	I_z (mA)	OHMS.	mA	uA	$V_R(V)$
ERD3.3F	B	3.13	3.51	40	15	40	80	1.0
	B1	3.13	3.37	40	15	40	80	1.0
	B2	3.27	3.51	40	15	40	80	1.0
ERD3.6F	B	3.43	3.83	40	15	40	60	1.0
	B1	3.43	3.68	40	15	40	60	1.0
	B2	3.58	3.83	40	15	40	60	1.0
ERD3.9F	B	3.73	4.15	40	15	40	40	1.0
	B1	3.73	4.00	40	15	40	40	1.0
	B2	3.88	4.15	40	15	40	40	1.0
ERD4.3F	B	4.03	4.55	40	15	40	20	1.0
	B1	4.03	4.28	40	15	40	20	1.0
	B2	4.15	4.41	40	15	40	20	1.0
	B3	4.28	4.55	40	15	40	20	1.0
ERD4.7F	B	4.41	4.91	40	10	40	20	1.0
	B1	4.41	4.65	40	10	40	20	1.0
	B2	4.53	4.78	40	10	40	20	1.0
	B3	4.66	4.91	40	10	40	20	1.0
ERD5.1F	B	4.79	5.38	40	8	40	20	1.0
	B1	4.79	5.05	40	8	40	20	1.0
	B2	4.95	5.22	40	8	40	20	1.0
	B3	5.10	5.38	40	8	40	20	1.0
ERD5.6F	B	5.28	5.95	40	8	40	20	1.5
	B1	5.28	5.56	40	8	40	20	1.5
	B2	5.46	5.75	40	8	40	20	1.5
	B3	5.65	5.95	40	8	40	20	1.5
ERD6.2F	B	5.76	6.52	40	6	40	20	3.0
	B1	5.76	6.14	40	6	40	20	3.0
	B2	5.98	6.33	40	6	40	20	3.0
	B3	6.17	6.52	40	6	40	20	3.0
ERD6.8F	B	6.35	8.10	40	6	40	20	3.5
	B1	6.35	6.71	40	6	40	20	3.5
	B2	6.55	6.90	40	6	40	20	3.5
	B3	6.74	7.10	40	6	40	20	3.5
ERD7.5F	B	6.93	7.80	40	4	40	20	4.0
	B1	6.93	7.33	40	4	40	20	4.0
	B2	7.17	7.55	40	4	40	20	4.0
	B3	7.39	7.80	40	4	40	20	4.0
ERD8.2F	B	7.58	8.54	40	4	40	20	5.0
	B1	7.58	8.03	40	4	40	20	5.0
	B2	7.87	8.28	40	4	40	20	5.0
	B3	8.12	8.54	40	4	40	20	5.0
ERD9.1F	B	8.34	9.38	40	6	40	20	6.0
	B1	8.34	8.80	40	6	40	20	6.0
	B2	8.64	9.08	40	6	40	20	6.0
	B3	8.91	9.38	40	6	40	20	6.0
ERD10F	B	9.16	10.40	40	6	40	10	7.0
	B1	9.16	9.67	40	6	40	10	7.0
	B2	9.50	9.99	40	6	40	10	7.0
	B3	9.83	10.40	40	6	40	10	7.0
ERD11F	B	10.22	11.43	20	8	20	10	8.0
	B1	10.22	10.75	20	8	20	10	8.0
	B2	10.54	11.09	20	8	20	10	8.0
	B3	10.87	11.43	20	8	20	10	8.0

ERD3.3F thru ERD75F

ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER		ZENER VOLTAGE $V_z @ I_{zT}$ VOLTS		TEST CURRENT I_{zT}	Dynamic Resistance Z_z (Max.)		REVERSE CURRENT I_R (Max.)	
Type	Suffix	Min	Max	I_z (mA)	OHMS.	mA	uA	V_R (V)
ERD12F	B	11.19	12.41	20	8	20	10	8.0
	B1	11.19	11.77	20	8	20	10	8.0
	B2	11.50	12.09	20	8	20	10	8.0
	B3	11.80	12.41	20	8	20	10	8.0
ERD13F	B	12.19	13.83	20	10	20	10	10
ERD15F	B	13.55	15.26	20	10	20	10	11
ERD16F	B	14.98	16.71	20	12	20	10	12
ERD18F	B	16.37	18.55	20	12	20	10	13
ERD20F	B	18.26	20.84	20	14	20	10	15
ERD22F	B	20.45	22.86	10	14	10	10	17
ERD24F	B	22.44	25.14	10	16	10	10	19
ERD27F	B	24.63	28.43	10	16	10	10	21
ERD30F	B	27.43	31.26	10	18	10	10	23
ERD33F	B	30.35	34.15	10	18	10	10	25
ERD36F	B	33.24	37.01	10	20	10	10	27
ERD39F	B	36.11	40.80	10	20	10	10	30
ERD43F	B	40.00	45.00	10	50	10	5	33
ERD47F	B	44.00	49.00	10	50	10	5	36
ERD51F	B	48.00	54.00	10	50	10	5	39
ERD56F	B	53.00	60.00	10	50	10	5	43
ERD62F	B	58.00	66.00	10	50	10	5	47
ERD68F	B	64.00	72.00	10	70	10	5	52
ERD75F	B	70.00	79.00	10	90	10	5	57



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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel; 5Kpcs/Reel
(Part Number)-AP	Ammo Packing;2.5Kpcs/AmmoBox
(Part Number)-BP	Bulk;1Kpcs/Box

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