



Micro Commercial Components

Micro Commercial Components  
20736 Marilla Street Chatsworth  
CA 91311  
Phone: (818) 701-4933  
Fax: (818) 701-4939

# ERD3.3F THRU ERD75F

## 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)

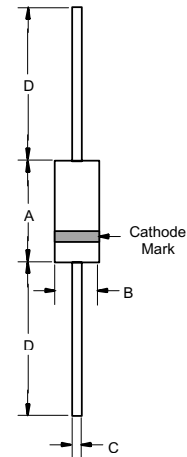
## 1000 mW Zener Diode 3.3 to 75 Volts

## Maximum Ratings

Symbol	Rating	Rating	Unit
I <sub>F</sub>	Forward Current	200	mA
P <sub>D</sub>	Power dissipation	1000	mW
T <sub>J</sub>	Junction Temperature	175	°C
T <sub>STG</sub>	Storage Temperature Range	-65 to +175	°C

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

### DO-41G



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.166	0.205	4.10	7.60	
B	0.080	0.107	2.00	3.60	Diameter
C	0.026	0.034	0.70	0.90	Diameter
D	1.000	-----	25.40	-----	

**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 $Z_{zt}$ (Max.)		REVERSE CURRENT $I_R$ (Max.)	
Type	Suffix	Min	Max	$I_{ZT}$ (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



Micro Commercial Components

## 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

### \*\*\*IMPORTANT NOTICE\*\*\*

*Micro Commercial Components Corp.* reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp.* does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp.* and all the companies whose products are represented on our website, harmless against all damages.

### \*\*\*APPLICATIONS DISCLAIMER\*\*\*

Products offer by *Micro Commercial Components Corp.* are not intended for use in Medical, Aerospace or Military Applications.