



## XR72-2.0 THRU XR72-39

PLANAR ZENER DIODE

ZENER VOLTAGE: 2.0-39V

POWER: 500mW

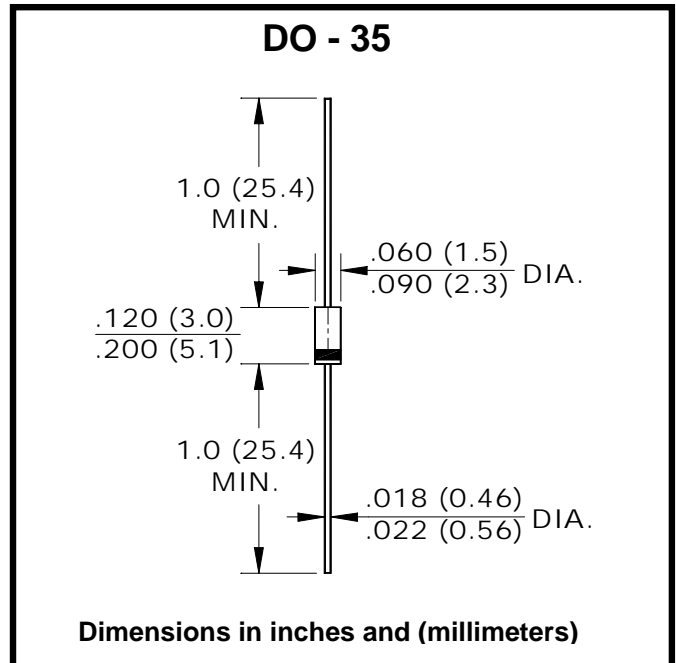
TECHNICAL  
SPECIFICATION

### FEATURES

- Small glass structure ensures high reliability
- Zener impedance at low current is small
- High temperature soldering guaranteed:  
250°C/10S/9.5mm lead length  
at 5 lbs tension

### MECHANICAL DATA

- Terminal: Plated axial leads solderable per  
MIL-STD 202E, method 208C
- Case: Glass, hermetically sealed
- Polarity: Color band denotes cathode
- Mounting position: Any



### MAXIMUM RATINGS AND CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified)

RATINGS	SYMBOL	VALUE	UNITS
Zener Current	$I_{ZMAX}$	see table	mA
Power Dissipation (Note 1)	Pt	500	mW
Thermal Resistance (junction to ambient) (Note 1)	$R_{\theta}(ja)$	0.3	°C/mW
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 ~ +175	°C

Note:

1. Valid provided that leads are kept at ambient temperature at a distance of 8mm from case.

# CHARACTERISTICS TABLE

TYPE	V <sub>Z</sub> (V)					I <sub>Z</sub> (mA)	R <sub>Z</sub>		R <sub>ZK</sub>		I <sub>R</sub>		I <sub>Z</sub> (25°C) max (mA)
	CLASSIFICATION						max (Ω)	I <sub>Z</sub> (mA)	max (Ω)	I <sub>ZK</sub> (mA)	max (μA)	V <sub>R</sub> (V)	
	R	S	T	U									
<b>XR72-2.0</b>	1.88-2.20	1.88-2.10	2.02-2.20			5	100	5	1000	0.5	120	0.5	150
<b>XR72-2.2</b>	2.12-2.41	2.12-2.30	2.22-2.41			5	100	5	1000	0.5	120	0.7	140
<b>XR72-2.4</b>	2.33-2.63	2.33-2.52	2.43-2.63			5	100	5	1000	0.5	120	1.0	130
<b>XR72-2.7</b>	2.54-2.91	2.54-2.75	2.69-2.91			5	100	5	1000	0.5	100	1.0	130
<b>XR72-3.0</b>	2.85-3.22	2.85-3.07	3.01-3.22			5	100	5	1000	0.5	50	1.0	120
<b>XR72-3.3</b>	3.16-3.53	3.16-3.38	3.32-3.53			5	100	5	1000	0.5	20	1.0	110
<b>XR72-3.6</b>	3.455-3.845	3.455-3.695	3.60-3.845			5	100	5	1000	0.5	10	1.0	100
<b>XR72-3.9</b>	3.74-4.16	3.74-4.01	3.89-4.16			5	100	5	1000	0.5	5	1.0	95
<b>XR72-4.3</b>	4.04-4.57	4.04-4.29	4.17-4.43	4.30-4.57		5	100	5	1000	0.5	5	1.0	90
<b>XR72-4.7</b>	4.44-4.93	4.44-4.68	4.55-4.80	4.68-4.93		5	80	5	1000	0.5	5	1.0	85
<b>XR72-5.1</b>	4.81-5.37	4.81-5.07	4.94-5.20	5.09-5.37		5	60	5	1000	0.5	5	1.5	80
<b>XR72-5.6</b>	5.28-5.91	5.28-5.55	5.45-5.73	5.61-5.91		5	40	5	900	0.5	5	2.5	70
<b>XR72-6.2</b>	5.78-6.44	5.78-6.09	5.96-6.27	6.12-6.44		5	30	5	500	0.5	5	3.0	64
<b>XR72-6.8</b>	6.29-7.01	6.29-6.63	6.49-6.83	6.66-7.01		5	25	5	150	0.5	2	3.5	58
<b>XR72-7.5</b>	6.85-7.67	6.85-7.22	7.07-7.45	7.29-7.67		5	25	5	120	0.5	0.5	4.0	53
<b>XR72-8.2</b>	7.53-8.45	7.53-7.92	7.78-8.19	8.03-8.45		5	20	5	120	0.5	0.5	5.0	47
<b>XR72-9.1</b>	8.29-9.30	8.29-8.73	8.57-9.01	8.83-9.30		5	20	5	120	0.5	0.5	6.0	43
<b>XR72-10</b>	9.12-10.44	9.12-9.59	9.41-9.90	9.70-10.20	9.94-10.44	5	20	5	120	0.5	0.2	7.0	40
<b>XR72-11</b>	10.18-11.38	10.18-10.71	10.50-11.05	10.82-11.38		5	20	5	120	0.5	0.2	8.0	36
<b>XR72-12</b>	11.13-12.35	11.13-11.71	11.44-12.03	11.74-12.35		5	25	5	110	0.5	0.2	9.0	32
<b>XR72-13</b>	12.11-13.66	12.11-12.75	12.55-13.21	12.99-13.66		5	25	5	110	0.5	0.2	10	29
<b>XR72-15</b>	13.44-15.09	13.44-14.13	13.89-14.62	14.35-15.09		5	25	5	110	0.5	0.2	11	27
<b>XR72-16</b>	14.80-16.51	14.80-15.57	15.25-16.04	15.69-16.51		5	25	5	150	0.5	0.2	12	24
<b>XR72-18</b>	16.22-18.33	16.22-17.06	16.82-17.70	17.42-18.33		5	30	5	150	0.5	0.2	13	21
<b>XR72-20</b>	18.02-20.72	18.02-18.96	18.63-19.59	19.23-20.22	19.72-20.72	5	30	5	200	0.5	0.2	15	20
<b>XR72-22</b>	20.15-22.63	20.15-21.20	20.64-21.71	21.08-22.17	21.52-22.63	5	30	5	200	0.5	0.2	17	18
<b>XR72-24</b>	22.05-24.85	22.05-23.18	22.61-23.77	23.12-24.31	23.63-24.85	5	35	5	200	0.5	0.2	19	16
<b>XR72-27</b>	24.26-27.64	24.26-25.52	24.97-26.26	25.63-26.95	26.29-27.64	5	45	5	250	0.5	0.2	21	14
<b>XR72-30</b>	26.99-30.51	26.99-28.39	27.70-29.13	28.36-29.82	29.02-30.51	5	55	5	250	0.5	0.2	23	13
<b>XR72-33</b>	29.68-33.11	29.68-31.22	30.32-31.88	30.90-32.50	31.49-33.11	5	65	5	250	0.5	0.2	25	12
<b>XR72-36</b>	32.14-35.77	32.14-33.79	32.79-34.49	33.40-35.13	34.01-35.77	5	75	5	250	0.5	0.2	27	11
<b>XR72-39</b>	34.68-38.52	34.68-36.47	35.36-37.19	36.00-37.85	36.67-38.52	5	85	5	250	0.5	0.2	30	10