



**XR73-2.0 THRU XR73-20**

**PLANAR ZENER DIODE**

**ZENER VOLTAGE: 2.0-20V**

**POWER: 500mW**

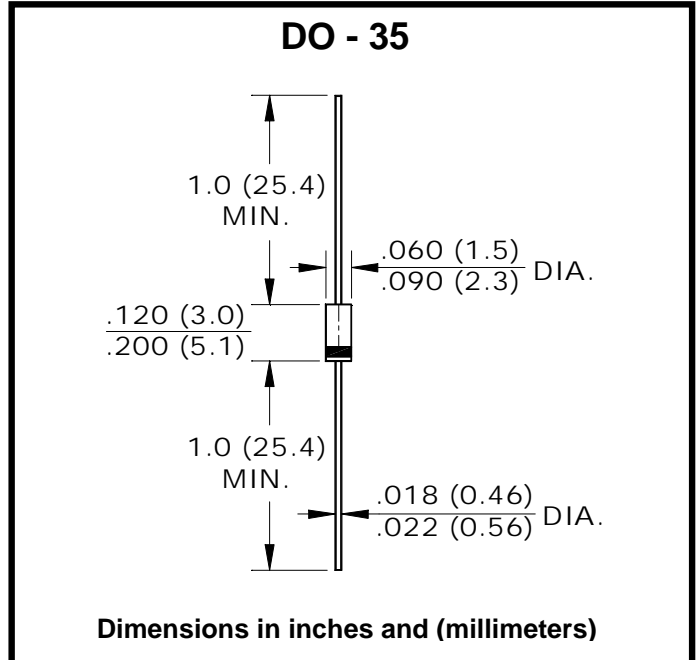
**TECHNICAL  
SPECIFICATION**

**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)	$P_t$	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)
	CLASSIFICATION						max (W)	I <sub>Z</sub> (mA)	max (W)	I <sub>ZK</sub> (mA)	max (mA)	V <sub>R</sub> (V)	max (mA)
		R	S	T	U								
<b>XR73-2.0</b>	1.88-2.20	1.88-2.10	2.02-2.20			20	140	20	2000	1	120	0.5	150
<b>XR73-2.2</b>	2.12-2.41	2.12-2.30	2.22-2.41			20	120	20	2000	1	120	0.7	140
<b>XR73-2.4</b>	2.33-2.63	2.33-2.52	2.43-2.63			20	100	20	2000	1	100	1.0	130
<b>XR73-2.7</b>	2.54-2.91	2.54-2.75	2.69-2.91			20	100	20	1000	1	50	1.0	130
<b>XR73-3.0</b>	2.85-3.22	2.85-3.07	3.01-3.22			20	80	20	1000	1	20	1.0	120
<b>XR72-3.3</b>	3.16-3.53	3.16-3.38	3.32-3.53			20	70	20	1000	1	10	1.0	110
<b>XR73-3.6</b>	3.455-3.845	3.455-3.695	3.60-3.845			20	60	20	1000	1	5	1.0	100
<b>XR73-3.9</b>	3.74-4.16	3.74-4.01	3.89-4.16			20	50	20	1000	1	5	1.0	90
<b>XR73-4.3</b>	4.04-4.57	4.04-4.29	4.17-4.43	4.30-4.57		20	40	20	1000	1	5	1.0	90
<b>XR73-4.7</b>	4.44-4.93	4.44-4.68	4.55-4.80	4.68-4.93		20	30	20	1500	0.5	5	1.0	85
<b>XR73-5.1</b>	4.81-5.37	4.81-5.07	4.94-5.20	5.09-5.37		20	30	20	1500	0.5	3	1.0	80
<b>XR73-5.6</b>	5.28-5.91	5.28-5.55	5.45-5.73	5.61-5.91		20	20	20	1500	0.5	3	2.0	70
<b>XR73-6.2</b>	5.78-6.44	5.78-6.09	5.96-6.27	6.12-6.44		20	20	20	1500	0.5	2	2.0	64
<b>XR73-6.8</b>	6.29-7.01	6.29-6.63	6.49-6.83	6.66-7.01		20	15	20	600	0.25	2	3.5	58
<b>XR73-7.5</b>	6.85-7.67	6.85-7.22	7.07-7.45	7.29-7.67		20	15	20	600	0.25	1	3.5	53
<b>XR73-8.2</b>	7.53-8.45	7.53-7.92	7.78-8.19	8.03-8.45		20	10	20	500	0.25	1	5	47
<b>XR73-9.1</b>	8.29-9.30	8.29-8.73	8.57-9.01	8.83-9.30		20	10	20	500	0.25	1	7	43
<b>XR73-10</b>	9.12-10.44	9.12-9.59	9.41-9.90	9.70-10.20	9.94-10.44	20	10	20	500	0.25	1	7	40
<b>XR73-11</b>	10.18-11.38	10.18-10.71	10.50-11.05	10.82-11.38		10	10	10	500	0.25	1	7	36
<b>XR73-12</b>	11.13-12.35	11.13-11.71	11.44-12.03	11.74-12.35		10	15	10	500	0.25	1	8	32
<b>XR73-13</b>	12.11-13.66	12.11-12.75	12.55-13.21	12.99-13.66		10	15	10	500	0.25	1	10	29
<b>XR73-15</b>	13.44-15.09	13.44-14.13	13.89-14.62	14.35-15.09		10	20	10	500	0.25	1	11	27
<b>XR73-16</b>	14.80-16.51	14.80-15.57	15.25-16.04	15.69-16.51		10	20	10	500	0.25	1	12	24
<b>XR73-18</b>	16.22-18.33	16.22-17.06	16.82-17.70	17.42-18.33		10	25	10	500	0.25	1	13	21
<b>XR73-20</b>	18.02-20.72	18.02-18.96	18.63-19.59	19.23-20.22	19.72-20.72	10	30	10	500	0.25	1	14	20