

# Z21D Series

## Specifications

Part No.	Varistor Voltage	Maximum Allowable Voltage		Clamping Voltage (max.)	Rated Power	Maximum Energy		Maximum Peak Current (8/20 $\mu$ s)		Capacitance (max.) 1kHz
		AC <sub>rms</sub> (V)	DC(V)			(10/1000 $\mu$ s)	(2ms)	1 time	2 times	
Z21D180	18(16-20)	11	14	36 at 20A	0.2	13	12	3000	2000	40000
Z21D220	22(20-24)	14	18	43	0.2	16	14	3000	2000	30000
Z21D270	27(24-30)	17	22	53	0.2	19	17	3000	2000	24500
Z21D330	33(30-36)	20	26	65	0.2	24	21	3000	2000	20000
Z21D390	39(35-43)	25	31	77	0.2	28	25	3000	2000	13800
Z21D470	47(42-52)	30	38	93	0.2	34	30	3000	2000	13500
Z21D560	56(50-62)	35	45	110	0.2	41	36	3000	2000	12200
Z21D680	68(61-75)	40	56	135	0.2	49	44	3000	2000	11500
* Z21D820	82(74-90)	50	65	135 at 100A	1.0	56	40	10000	6500	7500
* Z21D101	100(90-110)	60	85	165	1.0	70	50	10000	6500	6500
* Z21D121	120(108-132)	75	100	200	1.0	85	60	10000	6500	5500
* Z21D151	150(135-165)	95	125	250	1.0	106	75	10000	6500	4500
* Z21D201	200(185-225)	130	170	340	1.0	140	100	10000	6500	1700
* Z21D221	220(198-242)	140	180	360	1.0	155	110	10000	6500	1600
* Z21D241	240(216-264)	150	200	395	1.0	168	120	10000	6500	1500
* Z21D271	270(247-303)	175	225	455	1.0	190	135	10000	6500	1300
* Z21D331	330(297-363)	210	270	545	1.0	228	160	10000	6500	1100
* Z21D361	360(324-396)	230	300	595	1.0	255	180	10000	6500	1100
* Z21D391	390(351-429)	250	320	650	1.0	275	195	10000	6500	1100
* Z21D431	430(387-473)	275	350	710	1.0	303	215	10000	6500	1000
* Z21D471	470(423-517)	300	385	775	1.0	350	250	10000	6500	900
* Z21D511	510(459-561)	320	410	845	1.0	382	273	10000	6500	800
* Z21D561	560(504-616)	350	450	930	1.0	382	273	7500	6500	750
* Z21D681	680(612-748)	420	560	1120	1.0	382	273	7500	6500	650
* Z21D751	750(675-825)	460	615	1240	1.0	420	300	7500	6500	600
* Z21D821	820(738-902)	510	670	1355	1.0	460	325	7500	6500	530
* Z21D911	910(819-1001)	550	745	1500	1.0	510	360	7500	6500	500
* Z21D102	1000(900-1100)	625	825	1650	1.0	565	400	7500	6500	450

1. Operating temperature range: -40 to 85°C \* UL 1449 approved model  
 2. Storage temperature range: -40 to 125°C

## Dimensions

**Z5D**

**Z7D**

**Z10D**

**Z15D**

**Z21D**

**Crimped Leads and Taped**  
 Z5D □□□ T4C  
 Z7D □□□ T4C

**Straight Leads and Taped**  
 Z5D □□□ T4D  
 Z7D □□□ T4D

\*Dimension "T": Conforms to each individual specification  
 \*Packing quantity: 1000pcs/BOX

Symbol	Type I	Symbol	Type I
P	12.7±1.0	W <sub>0</sub>	5.0min
P <sub>0</sub>	12.7±0.3	W <sub>1</sub>	9.0±0.5
P <sub>1</sub>	3.85±0.70	W <sub>2</sub>	3max
P <sub>2</sub>	6.35±1.30	H	Approx. 22
φd	0.60 <sup>+0.08</sup> <sub>-0.05</sub>	H <sub>0</sub>	17.0±0.5
F	5.0±0.5	φD <sub>0</sub>	φ4.0±0.2
Δh	0±2	t	0.6±0.3
W	18.0 <sup>+1.0</sup> <sub>-0.5</sub>	L	11max
φD	Z5D: 7max, Z7D: 8.5max		

\*Dimension "T": Conforms to each individual specification  
 \*Packing quantity: 1000pcs/BOX

Symbol	Type I	Symbol	Type I
P	12.7±1.0	W <sub>0</sub>	5.0min
P <sub>0</sub>	12.7±0.3	W <sub>1</sub>	9.0±0.5
P <sub>1</sub>	3.85±0.70	W <sub>2</sub>	3max
P <sub>2</sub>	6.35±1.30	H	Approx. 20
φd	0.60 <sup>+0.08</sup> <sub>-0.05</sub>	H <sub>0</sub>	17.0±0.5
F	5.0±0.5	φD <sub>0</sub>	φ4.0±0.2
Δh	0±2	t	0.6±0.3
W	18.0 <sup>+1.0</sup> <sub>-0.5</sub>	L	11max
φD			Z5D: 7max, Z7D: 8.5max

Unit(mm)

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