



Micro Commercial Components

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**182KD25NX\*  
 thru  
 201KD25NX\***

**Features**

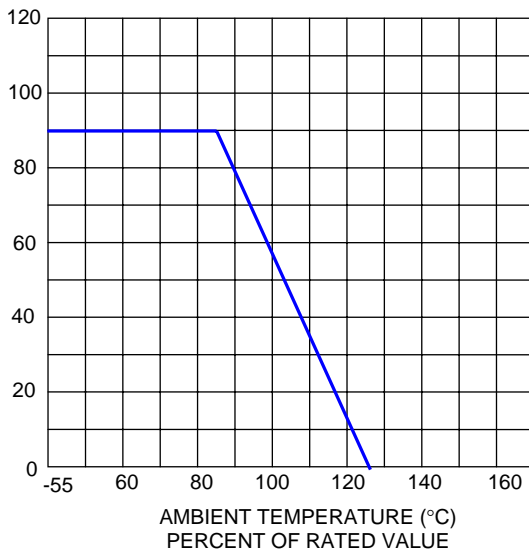
- Radial-Lead Varistor
- Designed to be Operated Continuously Across AC Power Lines
- No Derating Up to 85°C Ambient
- Available in Tape and Reel or Bulk Pack

**130 to 1000 Volts  
 Varistor  
 155 to 1100 Joule**

**Maximum Ratings**

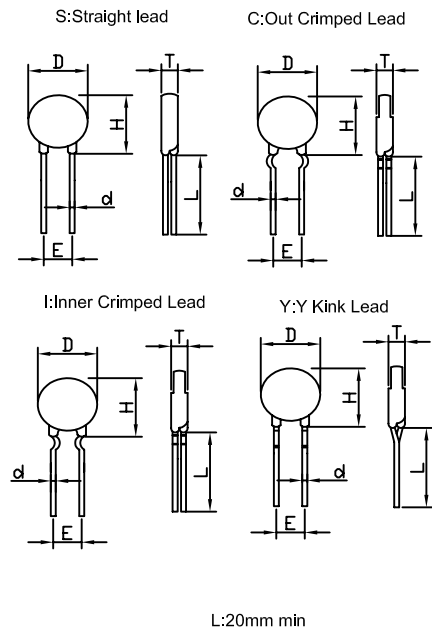
- Operating Ambient Temperature Range: -55°C to +85°C
- Storage Temperature Range: -55°C to +125°C
- Temperature Coefficient ( $\alpha V$ ) of Clamping Voltage ( $V_C$ ) at Specified Test Current: <0.05%/°C
- Varistor voltage temperature coefficient:

$$\frac{V_b \text{ at } 20^\circ\text{C} - V_b \text{ at } 70^\circ\text{C}}{V_b \text{ at } 20^\circ\text{C}} \times \frac{1}{50} \times 100(\% / ^\circ\text{C})$$



CURRENT, ENERGY AND POWER DERATING CURVE

Note : \* 'X' can be S, C, I or Y .  
 'S' denotes straight lead  
 'C' denotes out crimped lead  
 'I' denotes inner crimped lead  
 'Y' denotes kink lead



L:20mm min

SIZE	DIMENSIONS				
	Dmax	Hmax		Unit:mm	
Lead	ALL	S	C/I/Y	D +/- 0.05	E +/- 0.8
05D	7	10	13	0.6	5
07D	9	12	15	0.6	5
10D	13	16	19.5	0.8	7.5
14D	17	20	23	0.8	7.5
20D	23	27	30	0.8	7.5
				1.0	10
25D	28	31	35	1.0	12.5

**Electrical Characteristics @ 25°C Unless Otherwise Noted**

Part Number	Maximum Allowable Voltage		Maximum Energy	Withstanding Surge Current		Rated Wattage (W)	Varistor Voltage	Maximum Clamping Voltage
	Acrms (V)	DC (V)	10/1000us (J)	1 time	2 times		V1mA (V)	V150A (V)
				(A)				
182KD25NX	1000	1465	1100	20000	14000	1.0	1800(1620-1980)	2970
152KD25NX	750	1300	950				1500(1350-1650)	2475
122KD25NX	750	980	785				1200(1080-1320)	1815
112KD25NX	680	895	685				1100(990-1210)	1815
102KD25NX	625	825	620				1000(900-1100)	1650
911KD25NX	550	745	560				910(819-1001)	1500
821KD25NX	510	670	505				820(738-902)	1355
781KD25NX	485	640	485				780(702-858)	1290
751KD25NX	460	615	460				750(675-825)	1240
681KD25NX	420	560	430				680(612-748)	1120
621KD25NX	385	505	425				620(558-682)	1025
561KD25NX	350	460	420				560(504-616)	920
511KD25NX	320	415	420				510(459-561)	845
471KD25NX	300	385	385				470(423-517)	775
431KD25NX	275	350	335				430(387-473)	710
391KD25NX	250	320	300				390(351-429)	650
361KD25NX	230	300	245				360(324-396)	595
331KD25NX	210	275	230				330(297-363)	550
301KD25NX	190	250	220				300(270-330)	505
271KD25NX	175	225	210				270(243-297)	455
241KD25NX	150	200	190	240(216-264)	395			
221KD25NX	140	180	170	220(198-242)	360			
201KD25NX	130	170	155	200(185-225)	330			