

# 30KP SERIES

**V<sub>R</sub> : 26 - 400 Volts**

**P<sub>PK</sub> : 30,000 Watts**

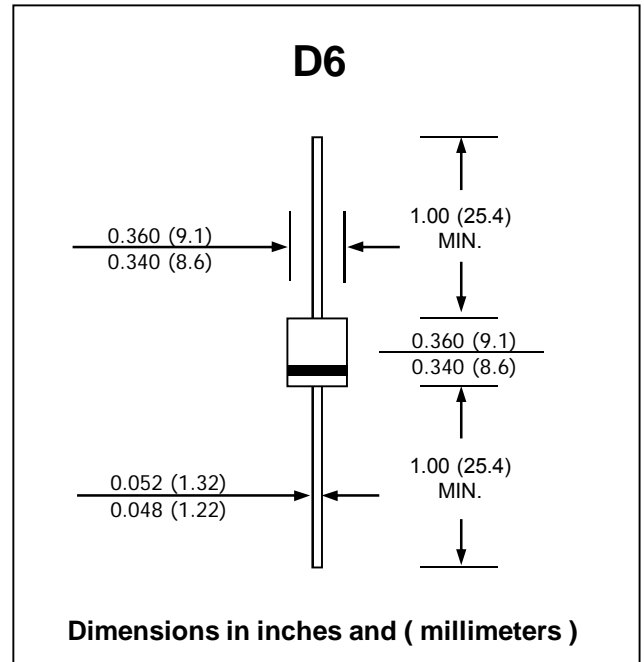
## FEATURES :

- \* Glass passivated junction chip
- \* Excellent Clamping Capability
- \* Fast Response Time
- \* Low Leakage Current
- \* Pb / RoHS Free

## MECHANICAL DATA

- \* Case : Void-free molded plastic body
- \* Epoxy : UL94V-0 rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end except Bipolar.
- \* Mounting position : Any
- \* Weight : 2.1 grams

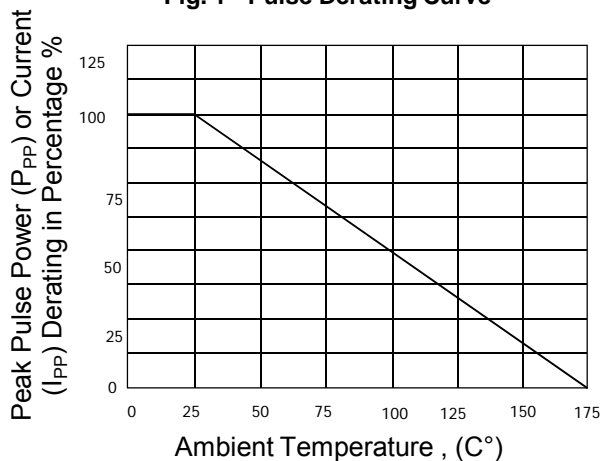
# TRANSIENT VOLTAGE SUPPRESSOR



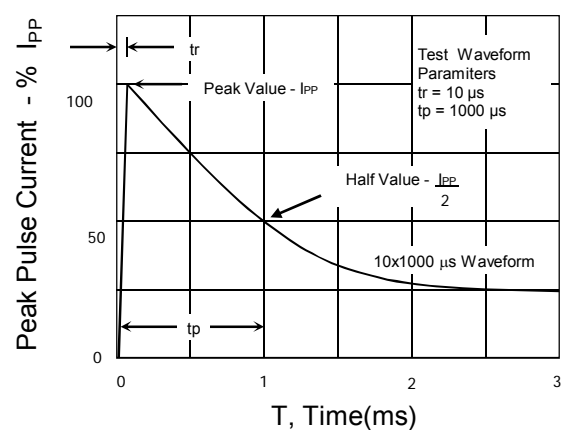
## MAXIMUM RATINGS (T<sub>a</sub> = 25 °C)

Rating	Symbol	Value	Unit
Peak Pulse Power Dissipation (10 x 1000μs, see Fig.2 )	P <sub>PK</sub>	30,000	W
Steady State Power Dissipation	P <sub>D</sub>	7	W
Peak Forward Surge Current, 8.3ms Single Half Sine Wave (Uni-directional devices only)	I <sub>FSM</sub>	250	A
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	- 55 to + 175	°C

**Fig. 1 - Pulse Derating Curve**



**Fig. 2 - Pulse Wave Form**



## ELECTRICAL CHARACTERISTICS (Rating at 25 °C ambient temperature unless otherwise specified)

Part Number (Uni-directional)	Part Number (Bi-directional)	Reverse Stand Off Voltage	Breakdown Voltage @ $I_{(BR)}$			Maximum Reverse Leakage @ $V_{WM}$	Maximum Clamping Voltage @ $I_{PP}$	Maximum Peak Pulse Current	Maximum $V_{(BR)}$ Temperature Coefficient	
			$V_{WM}$ (V)	$V_{BR}$ (V)						$I_{(BR)}$ (mA)
				Min.	Max.					
30KP26	30KP26C	26	28.9	35.3	50	10000	48.7	616	32	
30KP26A	30KP26CA	26	28.9	31.9	50	10000	44.0	682	29	
30KP28	30KP28C	28	31.1	38.0	50	8000	52.4	572	35	
30KP28A	30KP28CA	28	31.1	34.4	50	8000	47.5	632	31	
30KP30	30KP30C	30	33.3	40.7	50	8000	56.2	534	37	
30KP30A	30KP30CA	30	33.3	36.9	50	8000	50.7	592	33	
30KP33	30KP33C	33	36.7	44.9	50	5000	64.6	496	42	
30KP33A	30KP33CA	33	36.7	40.6	50	5000	58.6	548	38	
30KP36	30KP36C	36	40.0	48.9	50	5000	68.2	454	46	
30KP36A	30KP36CA	36	40.0	44.2	50	5000	61.8	502	41	
30KP40	30KP40C	40	44.4	54.3	20	1500	75.8	412	51	
30KP40A	30KP40CA	40	44.4	49.1	20	1500	68.6	456	46	
30KP43	30KP43C	43	47.8	58.4	10	500	79.0	380	55	
30KP43A	30KP43CA	43	47.8	52.8	10	500	71.0	430	50	
30KP45	30KP45C	45	50.0	61.1	5	150	80.7	372	57	
30KP45A	30KP45CA	45	50.0	55.3	5	150	73.0	410	52	
30KP48	30KP48C	48	53.3	65.1	5	150	85.9	350	62	
30KP48A	30KP48CA	48	53.3	58.9	5	150	77.7	386	56	
30KP51	30KP51C	51	56.7	69.3	5	50	91.5	328	66	
30KP51A	30KP51CA	51	56.7	62.7	5	50	82.8	362	60	
30KP54	30KP54C	54	60.0	73.3	5	25	96.8	310	70	
30KP54A	30KP54CA	54	60.0	66.3	5	25	87.5	342	63	
30KP58	30KP58C	58	64.4	78.7	5	15	104	288	76	
30KP58A	30KP58CA	58	64.4	71.2	5	15	94	320	68	
30KP60	30KP60C	60	66.7	81.5	5	15	107	280	78	
30KP60A	30KP60CA	60	66.7	73.7	5	15	97.3	304	71	
30KP64	30KP64C	64	71.1	86.9	5	10	115	260	84	
30KP64A	30KP64CA	64	71.1	78.6	5	10	104	288	76	
30KP70	30KP70C	70	77.8	95.1	5	10	126	238	92	
30KP70A	30KP70CA	70	77.8	86.0	5	10	114	264	83	
30KP75	30KP75C	75	83.3	102	5	10	135	222	100	
30KP75A	30KP75CA	75	83.3	92.1	5	10	122	246	89	
30KP78	30KP78C	78	86.7	106	5	10	140	214	104	
30KP78A	30KP78CA	78	86.7	95.8	5	10	126	238	93	
30KP85	30KP85C	85	94.4	115	5	10	152	198	113	
30KP85A	30KP85CA	85	94.4	104	5	10	137	218	102	
30KP90	30KP90C	90	100	122	5	10	160	188	120	
30KP90A	30KP90CA	90	100	111	5	10	146	206	109	
30KP100	30KP100C	100	111	136	5	10	179	168	134	
30KP100A	30KP100CA	100	111	123	5	10	162	186	121	
30KP110	30KP110C	110	122	149	5	10	196	154	147	
30KP110A	30KP110CA	110	122	135	5	10	178	168	133	
30KP120	30KP120C	120	133	163	5	10	214	140	161	
30KP120A	30KP120CA	120	133	147	5	10	193	156	145	

## ELECTRICAL CHARACTERISTICS (Rating at 25 °C ambient temperature unless otherwise specified)

Part Number (Uni-directional)	Part Number (Bi-directional)	Reverse Stand Off Voltage	Breakdown Voltage @ $I_{(BR)}$			Maximum Reverse Leakage @ $V_{WM}$	Maximum Clamping Voltage @ $I_{PP}$	Maximum Peak Pulse Current	Maximum $V_{(BR)}$ Temperature Coefficient	
			$V_{WM}$	$V_{BR}$ (V)						$I_{(BR)}$
			(V)	Min.	Max.					(mA)
30KP130	30KP130C	130	144	176	5	10	231	130	174	
30KP130A	30KP130CA	130	144	159	5	10	209	142	157	
30KP150	30KP150C	150	167	204	5	10	268	112	202	
30KP150A	30KP150CA	150	167	185	5	10	243	124	183	
30KP160	30KP160C	160	178	218	5	10	287	104	216	
30KP160A	30KP160CA	160	178	197	5	10	259	116	195	
30KP170	30KP170C	170	189	231	5	10	304	98	229	
30KP170A	30KP170CA	170	189	209	5	10	275	110	207	
30KP180	30KP180C	180	200	244	5	10	321	94	242	
30KP180A	30KP180CA	180	200	221	5	10	291	104	219	
30KP200	30KP200C	200	222	271	5	10	356	84	269	
30KP200A	30KP200CA	200	222	245	5	10	322	94	243	
30KP220	30KP220C	220	245	299	5	10	393	76	297	
30KP220A	30KP220CA	220	245	271	5	10	356	84	269	
30KP250	30KP250C	250	278	339	5	10	441	68	334	
30KP250A	30KP250CA	250	278	308	5	10	403	74	306	
30KP260	30KP260C	260	289	353	5	10	460	65	346	
30KP260A	30KP260CA	260	289	320	5	10	419	71	318	
30KP280	30KP280C	280	311	379	5	10	498	60	372	
30KP280A	30KP280CA	280	311	345	5	10	451	66	344	
30KP300	30KP300C	300	333	406	5	10	535	56	396	
30KP300A	30KP300CA	300	333	369	5	10	483	62	368	
30KP320	30KP320C	320	356	434	5	10	588	51	398	
30KP320A	30KP320CA	320	356	392	5	10	530	57	370	
30KP350	30KP350C	350	389	475	5	10	637	47	458	
30KP350A	30KP350CA	350	389	431	5	10	564	53	430	
30KP360	30KP360C	360	400	488	5	10	635	47	408	
30KP360A	30KP360CA	360	400	436	5	10	567	53	380	
30KP400	30KP400C	400	444	542	5	10	730	41	518	
30KP400A	30KP400CA	400	444	492	5	10	644	46	490	

Note : (1) For bidirectional type having  $V_{WM}$  of 60 volts and less, the  $I_D$  limit is double.

Fig. 3 - Peak Pulse Power vs. Pulse Time

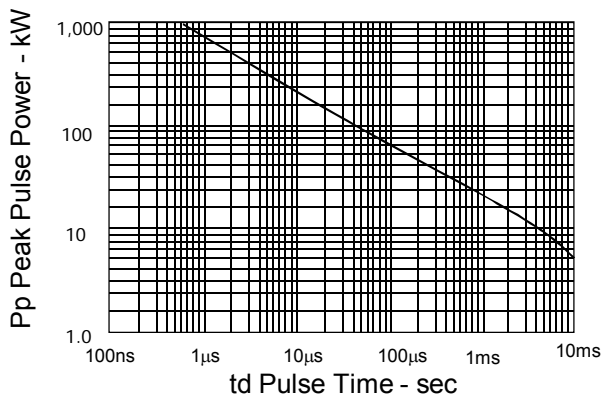
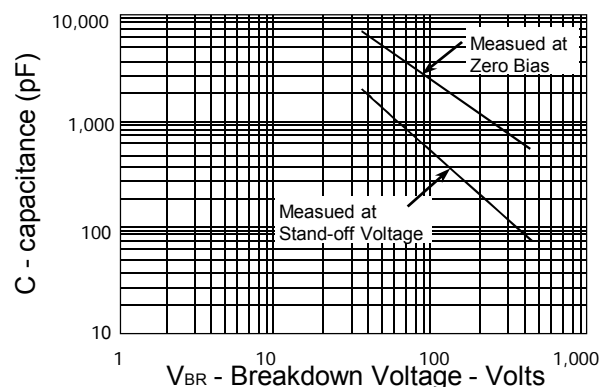


Fig. 4 - Typical Capacitance vs. Breakdown Voltage



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