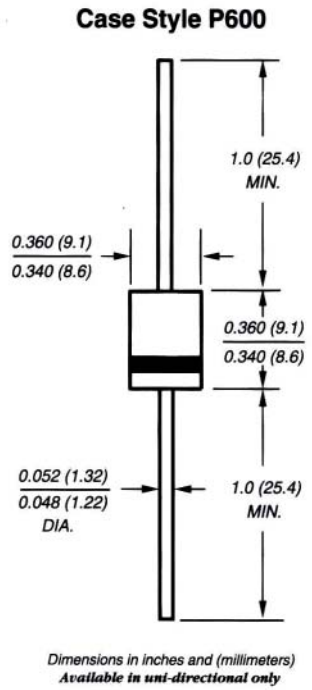
30KW SERIES

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR
VOLTAGE-30 TO 288 Volts
30000 watt Peak Pulse Power



FEATURES

- ◎ Plastic package
- ◎ Glass passivated junction
- ◎ 30000W Peak Pulse Power capability on 10/1000 μ s waveform
- ◎ Excellent clamping capability
- ◎ Repetition rate (duty cycle):0.05%
- ◎ Low incremental surge resistance
- ◎ Fast response time: typically less than 1.0ps from 0 Volts to BV
- ◎ High temperature soldering guaranteed: 265°C/10 seconds/.375", (9.5mm) lead length, 5lbs., (2.3kg) tension

MECHANICAL DATA

Case: Molded plastic over glass passivated junction
Terminal: Plated Axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes positive end (cathode) except Bipolar
Mounting Position: Any
Weight: 0.07ounce, 2.1gram

DEVICES FOR BIPOLAR APPLICATION

For Bidirectional use C or CA Suffix for types 30KW30 thru types 30KW288 (e.g. 30KW30C , 30KW288CA)
Electrical characteristics apply in both directions

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation on 10/1000 μ s waveform	P_{PPM}	Minimum 30000	Watts
Peak Pulse Current of on 10/1000 μ s waveform	I_{PPM}	SEE TABLE 1	Amps
Steady State Power Dissipation at T_L = 75°C , Lead lengths.375",(9.5mr	$P_{M(AV)}$	8	Watts
Peak Forward Surge Current,1/20 second / 25°C (JEDEC Method)	I_{FSM}	400	Amps
Operating junction and Storage Temperature Range	T_J , T_{STG}	-55 to + 175	°C

Notes :

1.Non-repetitive current pulse , per Fig. 3 and derated above T_A = 25°C, per Fig. 2 .

2.Mounted on Copper Pad area of 0.8X0.8" (20X20mm) per Fig. 5

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30KW PART NUMBER		REVERSE STAND-OFF VOLTAGE V_{RWM}(V)	BREAKDOWN VOLTAGE V_{BR}(V) MIN. @I_T	BREAKDOWN VOLTAGE V_{BR}(V) MAX. @I_T	TEST CURRENT I_T (mA)	PEAK PULSE CURRENT Ipp (A)	REVERSE LEAKAGE @ V_{RWM} I_R(μA)	MAXIMUN CLAMPING VOLTAGE @I_{PP} V_C (V)
UNI-POLAR	BI-POLAR							
30KW30A	30KW30CA	30	38.4	42.00	50	544.0	5000	55.1
30KW36A	30KW36CA	36	40.0	44.22	50	486.0	5000	61.7
30KW39A	30KW39CA	39	43.3	47.88	50	447.0	2000	67.1
30KW42A	30KW42CA	42	46.7	51.60	50	417.0	1000	71.9
30KW45A	30KW45CA	45	50.0	55.26	5	388.0	250	77.3
30KW48A	30KW48CA	48	53.3	58.98	5	368.0	150	81.5
30KW51A	30KW51CA	51	56.6	62.40	5	348.0	50	86.2
30KW54A	30KW54CA	54	60.0	66.60	5	325.0	20	92.3
30KW60A	30KW60CA	60	66.6	73.80	5	295.0	15	102.0
30KW66A	30KW66CA	66	73.2	81.00	5	275.0	10	109.0
30KW72A	30KW72CA	72	79.8	88.20	5	252.0	10	119.0
30KW78A	30KW78CA	78	86.4	95.40	5	233.0	10	129.0
30KW84A	30KW84CA	84	93.6	103.20	5	216.0	10	139.0
30KW90A	30KW90CA	90	100.2	111.00	5	205.0	10	146.0
30KW96A	30KW96CA	96	106.8	118.20	5	193.0	10	155.0
30KW102A	30KW102CA	102	113.4	125.40	5	181.0	10	166.0
30KW108A	30KW108CA	108	120.0	132.60	5	172.0	10	174.0
30KW120A	30KW120CA	120	133.2	147.00	5	154.0	10	195.0
30KW132A	30KW132CA	132	146.4	161.40	5	141.0	10	213.0
30KW144A	30KW144CA	144	160.2	177.00	5	129.0	10	233.0
30KW156A	30KW156CA	156	173.4	191.40	5	119.0	10	252.0
30KW168A	30KW168CA	168	186.6	206.40	5	110.0	10	273.0
30KW180A	30KW180CA	180	199.8	220.80	5	103.0	10	291.0
30KW198A	30KW198CA	198	220.2	243.60	5	94.0	10	319.0
30KW216A	30KW216CA	216	240.0	265.20	5	86.0	10	348.0
30KW240A	30KW240CA	240	266.4	294.60	5	78.0	10	387.0
30KW258A	30KW258CA	258	286.8	316.80	5	72.0	10	416.0
30KW270A	30KW270CA	270	300.0	331.80	5	69.0	10	436.0
30KW288A	30KW288CA	288	319.0	353.40	5	65.0	10	464.0

For bidirectional type having Vrwm of 60 volts and less, the IR limit is double.

For parts without A , the V_{BR} is $\pm$ 10%