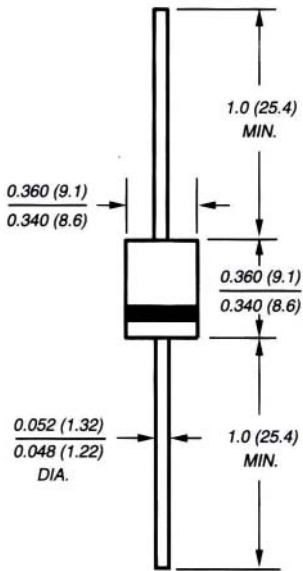


20KW SERIES

CLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR VOLTAGE-20.0 TO 300 Volts 20000 Watt Peak Pulse Power

Case Style P600



Dimensions in inches and (millimeters)
Available in uni-directional only

FEATURES

- Plastic package
- Glass passivated junction
- 20000W 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 1.0 ps from 0 volts to BV
- High temperature soldering guaranteed : 265°C / 10 seconds / .375" , (9.5mm)
- lead length, 51bs. , (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 denoted positive end (cathode) except Bipolar
- Mounting Position:** Any
- Weight:** 0.07 ounce, 2.1 gram

DEVICES FOR BIPOLAR APPLICATIONS

For Bidirectional use C or CA Suffix for types 20KW 20 thru types 20KW 300.
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 20000	Watts
Peak Pulse Current of on 10-1000 μ s waveform	I_{PPM}	SEE TABLE 1	Amps
Steady State Power Dissipation at T ₁ = 75°C Lead Lengths. 375", (9.5mm)	$P_M (AV)$	8	Watts
Peak Forward Surge Current, 1/20 second / 25 (JEDEC Method)	I_{FSM}	400	Amps
Operatings 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 per Fig. 2 .
2. Mounted on Copper Pad area of 0.8x0.8" (20x20mm) per Fig. 5

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CLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR VOLTAGE-20.0 TO 300 Volts 2000 Watt Peak Pulse Power

20KW 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 $I_{PP}(A)$	REVERSE LEAKAGE @ V_{RWM} $I_R(\mu A)$	MAXIMUM CLAMPING VOLTAGE @ $I_{PP} V_C (V)$
UNI-POLAR	BI-POLAR							
20KW20A	20KW20CA	20	25.60	28.00	50	544.0	5000	36.8
20KW24A	20KW24CA	24	26.68	29.48	50	486.0	5000	41.2
20KW26A	20KW26CA	26	28.88	31.92	50	447.0	2000	44.7
20KW28A	20KW28CA	28	31.12	34.40	50	417.0	1000	48.0
20KW30A	20KW30CA	30	33.32	36.84	5	388.0	250	51.5
20KW32A	20KW32CA	32	35.56	39.32	5	368.0	150	54.3
20KW34A	20KW34CA	34	37.76	41.60	5	348.0	50	57.5
20KW36A	20KW36CA	36	40.00	44.40	5	325.0	20	61.5
20KW40A	20KW40CA	40	44.40	49.20	5	295.0	15	67.8
20KW44A	20KW44CA	44	48.80	54.00	5	275.0	10	72.7
20KW48A	20KW48CA	48	53.20	58.80	5	252.0	10	79.4
20KW52A	20KW52CA	52	57.60	63.60	5	233.0	10	85.8
20KW56A	20KW56CA	56	62.40	68.80	5	216.0	10	92.6
20KW60A	20KW60CA	60	66.80	74.00	5	205.0	10	97.6
20KW64A	20KW64CA	64	71.20	78.80	5	193.0	10	103.6
20KW68A	20KW68CA	68	75.60	83.60	5	181.0	10	110.5
20KW72A	20KW72CA	72	80.00	88.40	5	172.0	10	116.3
20KW80A	20KW80CA	80	88.80	98.00	5	154.0	10	129.9
20KW88A	20KW88CA	88	97.60	107.60	5	141.0	10	141.8
20KW96A	20KW96CA	96	106.80	118.00	5	129.0	10	155.0
20KW104A	20KW104CA	104	115.60	127.60	5	119.0	10	168.1
20KW112A	20KW112CA	112	124.40	137.60	5	110.0	10	181.8
20KW120A	20KW120CA	120	133.20	147.20	5	103.0	10	194.2
20KW132A	20KW132CA	132	146.80	162.40	5	94.0	10	212.8
20KW144A	20KW144CA	144	160.00	176.80	5	86.0	10	232.6
20KW160A	20KW160CA	160	177.60	196.40	5	78.0	10	256.4
20KW172A	20KW172CA	172	191.20	211.20	5	72.0	10	277.8
20KW180A	20KW180CA	180	200.00	221.20	5	69.0	10	289.9
20KW192A	20KW192CA	192	213.20	235.60	5	65.0	10	307.7
20KW204A	20KW204CA	204	226.80	250.80	5	61.0	10	327.9
20KW216A	20KW216CA	216	240.00	265.20	5	58.0	10	344.8
20KW232A	20KW232CA	232	257.60	284.80	5	54.0	10	370.4
20KW240A	20KW240CA	240	266.80	294.80	5	52.0	10	384.6
20KW256A	20KW256CA	256	284.40	314.40	5	49.0	10	408.2
20KW280A	20KW280CA	280	311.20	344.00	5	44.0	10	454.5
20KW300A	20KW300CA	300	333.20	368.40	5	41.0	10	487.8

For bidirectional type having V_{RWM} of 40 volts and less, the IR limit is double.

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