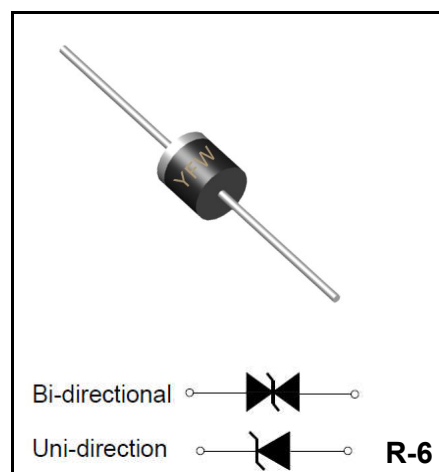


10000W GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

Peak Pulse Power: 10000 W
Reverse Voltage: 10 V to 250 V

FEATURES

- ✦ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ✦ Glass passivated junction
- ✦ 10000W 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 μ s from 0 volts to BV
- ✦ Typical I_d less than 1 μ A above 10V
- ✦ 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
- ✦ Terminals: 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 10KP10 thru types 10KP250 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 (NOTE 1)	P_{PPM}	10000	W
Peak Pulse Current of on 10-1000 μ s waveform (NOTE 1)	I_{PPM}	SEE TABLE 1	A
Steady State Power Dissipation at $T_l=75^\circ\text{C}$ Lead Lengths .375", (9.5mm)(NOTE 2)	$P_M(AV)$	8.0	W
Peak Forward Surge Current, 8.3ms Sine-Wave Superimposed on Rated Load, (JEDEC Method) (NOTE 3)	I_{FSM}	400.0	A
Operatings and Storage Temperature Range	T_J, T_{STG}	-55 to +175	$^\circ\text{C}$

NOTES:

1. Non-repetitive current pulse, per Fig.3 and derated above $T_a=25^\circ\text{C}$ per Fig.2.
2. Mounted on Copper Pad area of 0.8x0.8" (20x20mm) per Fig.5.
3. 8.3ms single half sine-wave, or equivalent square wave, Duty cycle=4 pulses per minutes maximum

Part Number		Reverse Stand-Off Voltage	Breakdown Voltage @IT		Test Current	Maximum Clamping Voltage @IPP (V)	Maximum Peak Pulse Current	Maximum Reverse Leakage @VRWM
Uni	Bi	VRWM (V)	VBR MIN(V)	VBR MAX(V)	IT (mA)	VC(V)	IPP (A)	IR(μA)
10KP10A	10KP10CA	10	11.1	12.3	50	18.4	548.9	5000
10KP12A	10KP12CA	12	13.3	14.7	50	20.6	490.3	5000
10KP13A	10KP13CA	13	14.4	15.9	50	22.4	450.9	5000
10KP14A	10KP14CA	14	15.6	17.2	50	24	420.8	1000
10KP16A	10KP16CA	16	17.8	19.7	10	27.2	371.3	150
10KP17A	10KP17CA	17	18.9	20.9	5	27.6	365.9	150
10KP18A	10KP18CA	18	20	22.1	5	29.2	345.9	100
10KP20A	10KP20CA	20	22.2	24.5	5	32.4	311.7	50
10KP22A	10KP22CA	22	24.4	26.9	5	35.5	284.5	15
10KP24A	10KP24CA	24	26.7	29.5	5	38.9	259.6	5
10KP26A	10KP26CA	26	28.9	31.9	5	42.1	239.9	5
10KP28A	10KP28CA	28	31.1	34.4	5	45.4	222.5	5
10KP30A	10KP30CA	30	33.3	36.8	5	48.4	208.7	5
10KP33A	10KP33CA	33	36.7	40.6	5	53.3	189.5	5
10KP36A	10KP36CA	36	40	44.2	5	58.1	173.8	5
10KP40A	10KP40CA	40	44.4	49.1	5	64.5	156.6	5
10KP43A	10KP43CA	43	47.8	52.8	5	69.4	145.5	5
10KP45A	10KP45CA	45	50	55.3	5	72.7	138.9	5
10KP48A	10KP48CA	48	53.3	58.90	5	77.4	130.5	5
10KP51A	10KP51CA	51	56.7	62.7	5	82.4	122.6	5
10KP54A	10KP54CA	54	60	66.3	5	87.1	116	5
10KP58A	10KP58CA	58	64.4	71.2	5	93.6	107.9	5
10KP60A	10KP60CA	60	66.7	73.7	5	96.8	104.3	5
10KP64A	10KP64CA	64	71.1	78.6	5	103	98.1	5
10KP70A	10KP70CA	70	77.8	86	5	113	89.4	5
10KP75A	10KP75CA	75	83.3	92.1	5	121	83.5	5
10KP78A	10KP78CA	78	86.7	95.8	5	126	80.2	5
10KP85A	10KP85CA	85	94.4	104	5	137	73.7	5
10KP90A	10KP90CA	90	100	111	5	146	69.2	5
10KP100A	10KP100CA	100	111	123	5	162	62.3	5
10KP110A	10KP110CA	110	122	135	5	177	57.1	5
10KP120A	10KP120CA	120	133	147	5	193	52.3	5
10KP130A	10KP130CA	130	144	159	5	209	48.3	5
10KP150A	10KP150CA	150	167	185	5	243	41.6	5
10KP160A	10KP160CA	160	178	197	5	259	39	5
10KP170A	10KP170CA	170	189	209	5	275	36.7	5
10KP180A	10KP180CA	180	200	221	5	289	34.9	5
10KP190A	10KP190CA	190	211	233	5	310	32.6	5
10KP200A	10KP200CA	200	222	246	5	329.2	30.7	5
10KP210A	10KP210CA	210	233	258	5	349.5	28.9	5
10KP220A	10KP220CA	220	244	270	5	371.1	27.2	5
10KP240A	10KP240CA	240	267.4	293.9	5	386	26.1	
10KP250A	10KP250CA	250	277	306	5	425	23.8	2

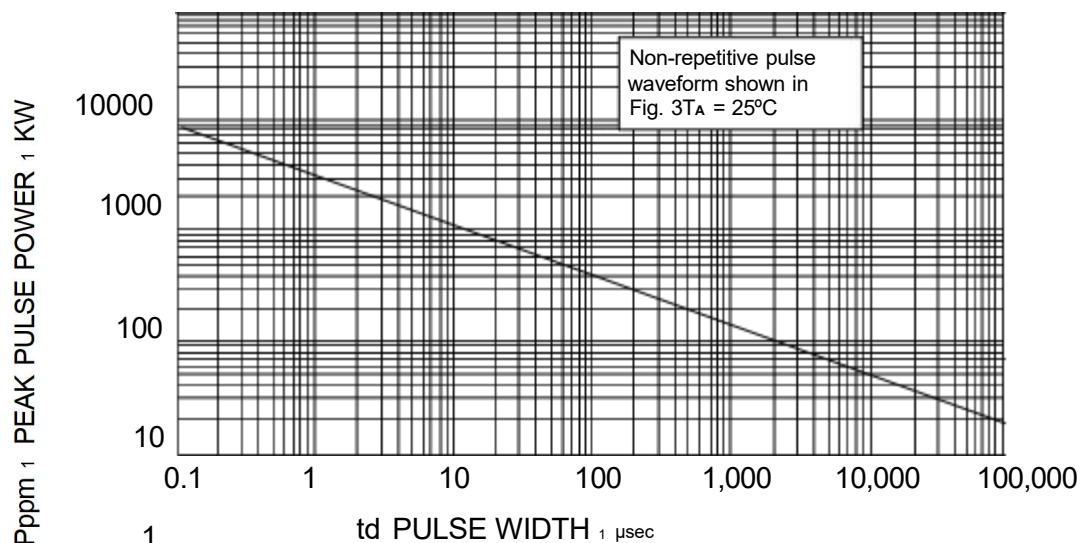


FIG. 1 PEAK PULSE POWER RATING

Fig.2 - Pulse Derating Curve

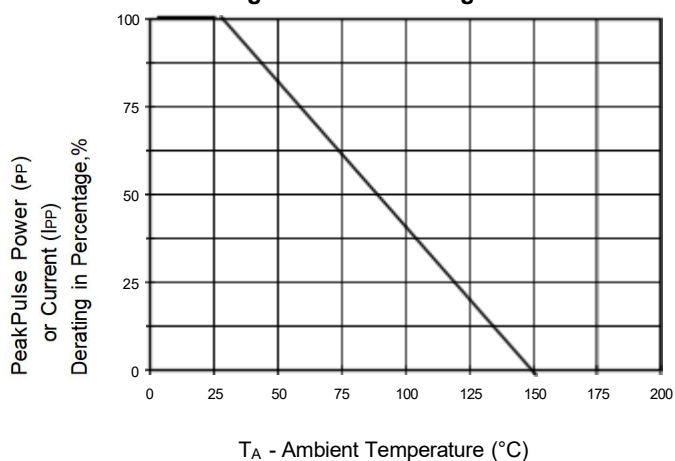
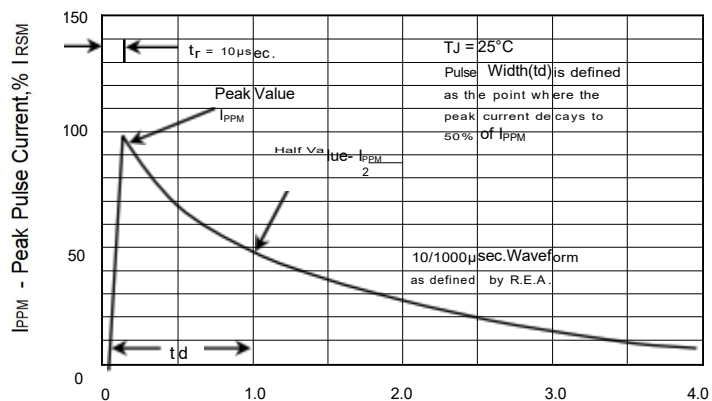


Fig.3 - Pulse Waveform



Ordering information

Package	Packing Description	Packing Quantity
R-6	braid	500PCS/Box 5000PCS/Carton

Package Dimensions

R-6

Dim.	Millimeter(mm)		INCHES	
	Min.	Max.	Min.	Max.
A	8.60	9.10	0.340	0.360
B	8.60	9.10	0.340	0.360
C	1.20	1.30	0.048	0.052
D	25.40	-	1.00	-

Disclaimer

The information presented in this document is for reference only. Guangdong Youfeng Microelectronics Co.,Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise. The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), YFW or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale. This publication supersedes & replaces all information previously supplied. For additional information, please visit our website <https://www.yfwdiode.com>, or consult YFW sales office for further assistance.