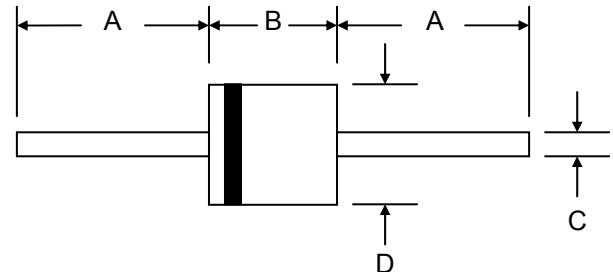


Features

- Glass Passivated Die Construction
- 20000W Peak Pulse Power Dissipation
- 20V – 300V Standoff Voltage
- Uni- and Bi-Directional Versions Available
- Excellent Clamping Voltage
- Typical Response Time < 1nS
- Plastic Case Material has UL Flammability Classification Rating 94V-0



Mechanical Data

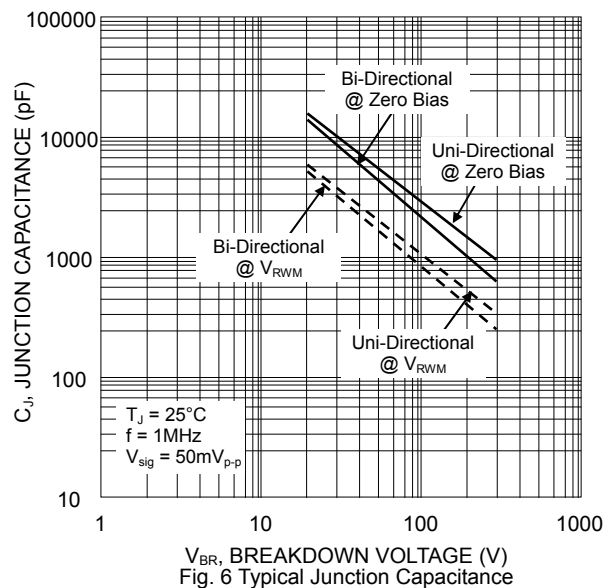
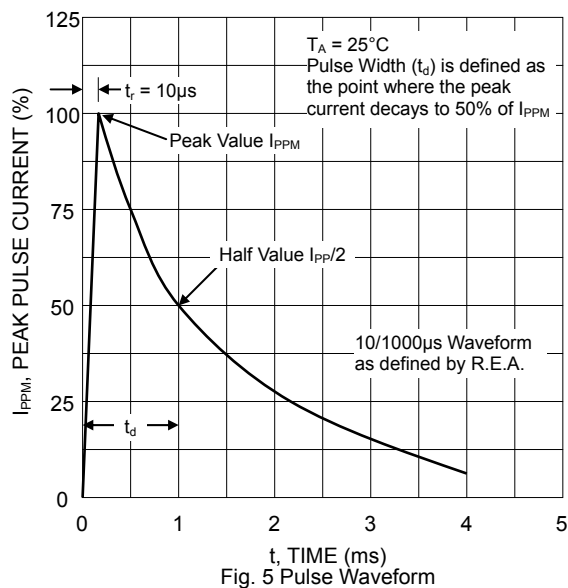
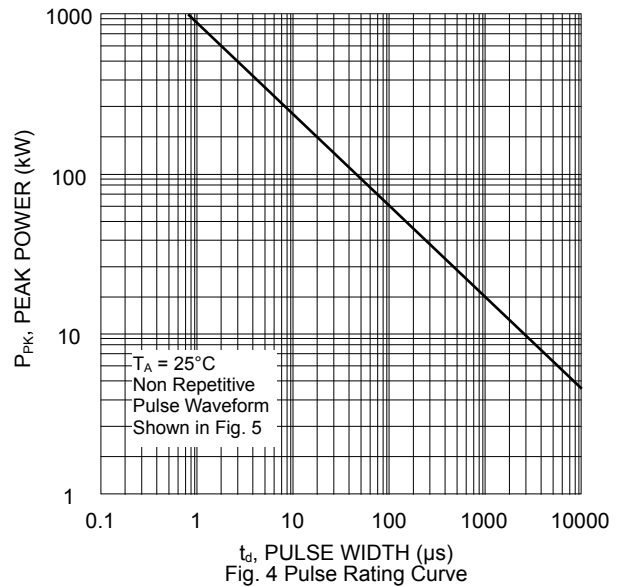
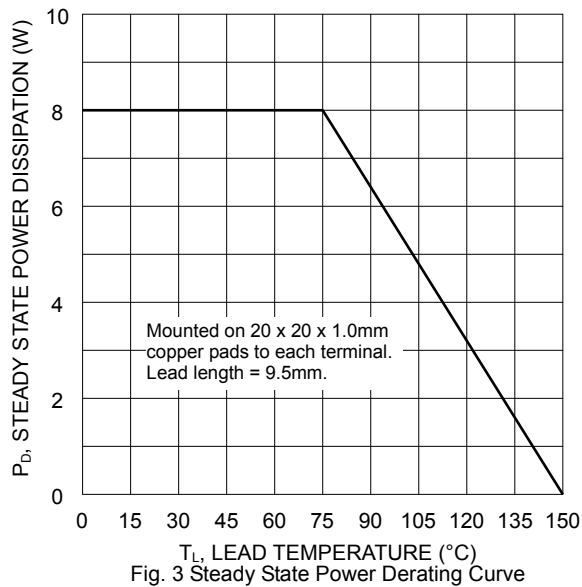
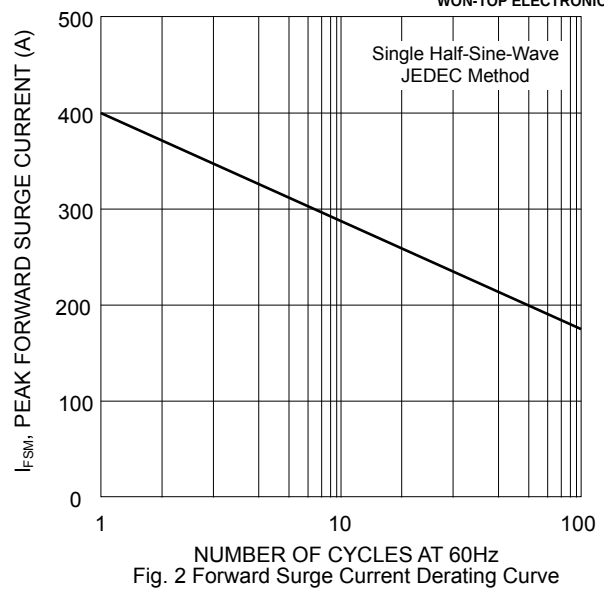
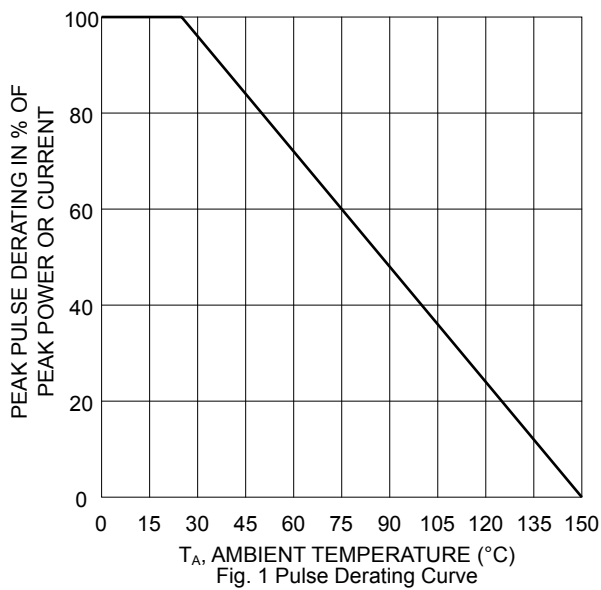
- Case: P-600, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band Except Bi-Directional
- Weight: 2.10 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 5**

P-600		
Dim	Min	Max
A	25.4	—
B	8.60	9.10
C	1.20	1.30
D	8.60	9.10
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation on 10/1000μS Waveform (Note 1, 2, 4)	PPPM	20000	W
Peak Pulse Current on 10/1000μS Waveform (Note 1)	IPPM	See Table 1	A
Peak Forward Surge Current (Note 2, 3)	IFSM	400	A
Power Dissipation at T _L = 75°C (Note 2)	P _D	8.0	W
Typical Thermal Resistance, Junction to Ambient (Note 2)	R _{θJA}	40	°C/W
Typical Thermal Resistance, Junction to Lead (Note 2)	R _{θJL}	8.0	
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

- Note: 1. Non-repetitive current pulse per Figure 5 and derated above T_A = 25°C per Figure 1.
 2. Mounted on 20 x 20 x 1.0mm thick copper pads to each terminal that maintained at a distance of 9.5mm from the case.
 3. Measured on 8.3ms single half sine-wave, duty cycle = 4 pulses per minute maximum. For uni-directional devices only.
 4. Peak pulse power waveform is 10/1000μS.

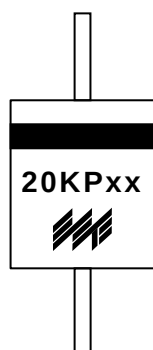


Electrical Characteristics (@T_A=25°C unless otherwise specified) Table 1

Uni-Directional Part No.	Bi-Directional Part No.	Reverse Stand-Off Voltage V _{RWM} (V)	Breakdown Voltage V _{BR} (V) @I _T	Test Current I _T (mA)	Maximum Clamping Voltage @I _{PP} V _C (V)	Peak Pulse Current I _{PP} (A)	Reverse Leakage* @V _{RWM} I _R (μA)
			Min.				
20KP20A	20KP20CA	20.0	22.34	50	36.8	548.9	5000
20KP24A	20KP24CA	24.0	26.81	50	41.2	490.3	5000
20KP26A	20KP26CA	26.0	29.04	50	44.7	451.9	2000
20KP28A	20KP28CA	28.0	31.28	50	48.0	420.8	1000
20KP30A	20KP30CA	30.0	33.51	5	51.5	392.2	250
20KP32A	20KP32CA	32.0	35.74	5	54.3	372.0	150
20KP34A	20KP34CA	34.0	38.00	5	57.5	351.3	50
20KP36A	20KP36CA	36.0	40.20	5	61.5	328.5	20
20KP40A	20KP40CA	40.0	44.70	5	67.8	297.9	15
20KP44A	20KP44CA	44.0	49.10	5	72.7	277.9	2
20KP48A	20KP48CA	48.0	53.60	5	79.4	254.4	2
20KP52A	20KP52CA	52.0	58.10	5	85.8	235.4	2
20KP56A	20KP56CA	56.0	62.60	5	92.6	218.1	2
20KP60A	20KP60CA	60.0	67.00	5	97.6	207.0	2
20KP64A	20KP64CA	64.0	71.50	5	104.0	194.2	2
20KP68A	20KP68CA	68.0	76.00	5	110.0	183.6	2
20KP72A	20KP72CA	72.0	80.40	5	116.0	174.1	2
20KP80A	20KP80CA	80.0	89.40	5	130.0	155.4	2
20KP88A	20KP88CA	88.0	98.30	5	142.0	142.3	2
20KP96A	20KP96CA	96.0	107.20	5	155.0	130.3	2
20KP104A	20KP104CA	104.0	116.20	5	168.0	120.2	2
20KP112A	20KP112CA	112.0	125.10	5	182.0	111.0	2
20KP120A	20KP120CA	120.0	134.00	5	194.0	104.1	2
20KP132A	20KP132CA	132.0	147.40	5	213.0	94.8	2
20KP144A	20KP144CA	144.0	160.80	5	232.0	87.1	2
20KP160A	20KP160CA	160.0	178.70	5	258.0	78.3	2
20KP172A	20KP172CA	172.0	192.10	5	277.0	72.9	2
20KP180A	20KP180CA	180.0	201.10	5	291.0	69.4	2
20KP192A	20KP192CA	192.0	214.50	5	309.0	65.4	2
20KP204A	20KP204CA	204.0	227.90	5	329.0	61.4	2
20KP216A	20KP216CA	216.0	241.30	5	348.0	58.0	2
20KP232A	20KP232CA	232.0	259.10	5	374.0	54.0	2
20KP240A	20KP240CA	240.0	268.10	5	387.0	52.2	2
20KP256A	20KP256CA	256.0	286.00	5	412.0	49.0	2
20KP280A	20KP280CA	280.0	312.80	5	451.0	44.8	2
20KP300A	20KP300CA	300.0	335.10	5	483.0	41.8	2

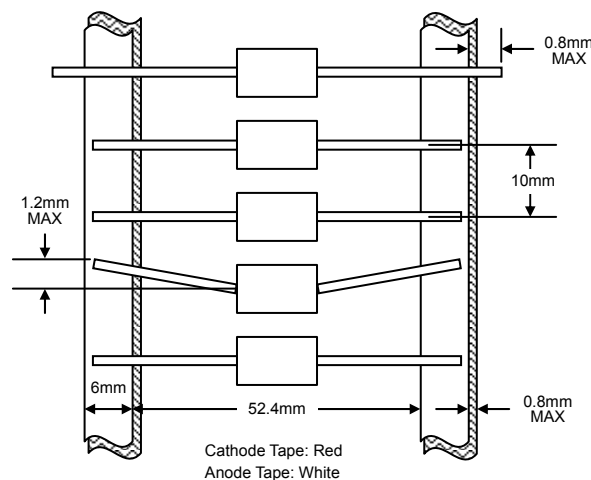
*For bi-directional devices V_{RWM} ≤ 40V, the I_R limit is double.

MARKING INFORMATION



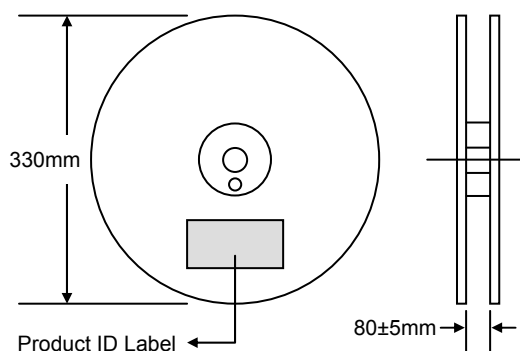
Cathode = Polarity Band Except
Bi-Directional Types
20KPxx = Device Number

TAPING SPECIFICATIONS

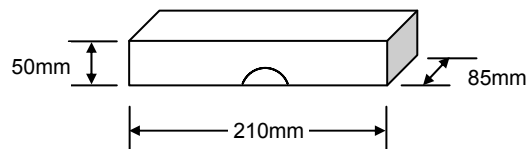


PACKAGING INFORMATION

TAPE & REEL



BULK



Packaging	Reel Diameter / Box Size (mm)	Quantity (PCS)	Carton Size (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
TAPE & REEL	330	800	370 x 370 x 420	4,000	12.0
BULK	210 x 85 x 50	250	500 x 255 x 275	7,000	17.0

Note: 1. Paper reel, white or gray color. Core material: plastic or metal.
2. Components are packed in accordance with EIA standard RS-296-E.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
20KPxx-T3	P-600	800/Tape & Reel
20KPxx	P-600	250 Units/Box

1. Products listed in **bold** are WTE **Preferred** Devices.
2. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
3. **To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, 20KP20A-T3-LF.**

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