

15KPA17A(CA) THRU 15KPA280A(CA)

VOLTAGE - 17 TO 280 VOLTS 15000 WATT PEAK POWER

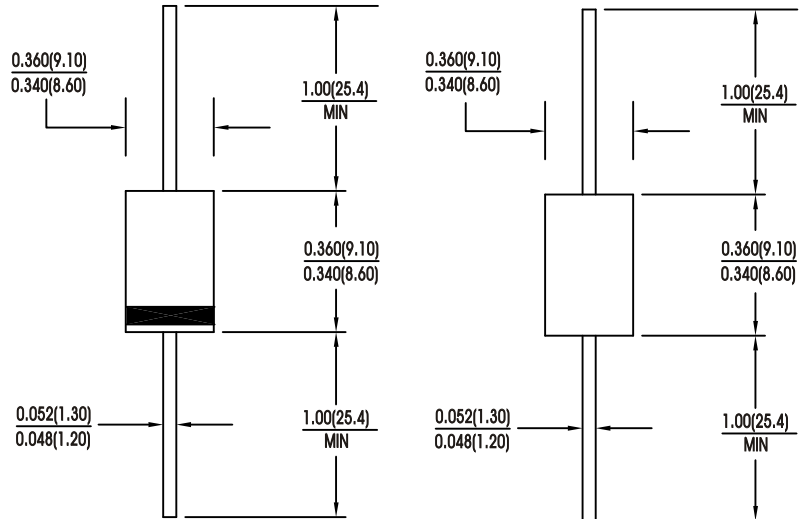
FEATURES:

- Plastic package has Underwrites Laboratory Flammability Classification 94V-0
- 15000W peak pulse power capability at 10/1000us waveform
- Excellent clamping capability
- Low incremental surge resistance
- Fast response time : typically less than 1.0 ps from 0 volts to V(BR),bidirectional less than 10ns
- Glass passivated junction
- Repetition rate(duty cycle) : 0.05%
- High temperature soldering guaranteed : 260°C /10 seconds/0.375"(9.5mm) lead length/5lbs(2.3kg) tension

MECHANICAL DATA

Case: Molded plastic
 Terminals: Axial leads, Solderable per MIL-STD-750, Method 2026
 Polarity: Color band denoted positive end(cathode) except Bidirectionals
 Mounting Position: Any
 Weight: 2.5 grams

P600



Suffix "or" "A"
 UNIDIRECTIONAL

Suffix "c" or "CA"
 DIRECTIONAL

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

Characteristic	Symbol	Value	Units
Minimum peak power dissipation on 10/1000us waveform Ta=25 °C	PPPM	15000	W
Maximum peak pulse current of on 10/1000us waveform	IPPM	SEE TABLE1	Amps
Steady state power dissipation at TL=75 °C LEAD LENGTHS .375"(9.5mm)(note 1)	PM(AV)	8.0	Watts
Maximum forward Surge current, 1/20 second / 25°C (JEDEC Method) Unidirectional only	IFSM	400	Amps
Operating and storage temperature range	TJ, Tstg	-55 to +175	°C

NOTES :

1. Mounted on Copper Lead area of 0.79x0.79" (20x20mm)

RATINGS AND CHARACTERISTIC CURVES 15KPA17A(CA) THRU 15KPA280A(CA)

TABLE 1

Device Type		Reverse Stand-off Voltage V_{RWM}	Minimum Breakdown Voltage $V_{BR}(V)$ at I_T	Test Current I_T	Maximum Reverse Leakage at V_{RWM} $I_R(\mu A)$	Maximum Peak Pulse Current I_{PPM}	Maximum Clamping Voltage $V_C@I_{PP}$		
UNI-POLAR	BI-POLAR	Volts	Volts	mA	μA	Amps	Volts		
15KPA17A	15KPA17CA	17.0	18.9	50	5000	512	29.3		
15KPA18A	15KPA18CA	18.0	20.0	50	5000	485	30.9		
15KPA20A	15KPA20CA	20.0	22.2	20	1500	437	34.3		
15KPA22A	15KPA22CA	22.0	24.4	10	500	404	37.1		
15KPA24A	15KPA24CA	24.0	26.7	5.0	150	369	40.5		
15KPA26A	15KPA26CA	26.0	28.9	5.0	50	347	44.0		
15KPA28A	15KPA28CA	28.0	31.1	5.0	25	316	47.5		
15KPA30A	15KPA30CA	30.0	33.3	5.0	15	296	50.7		
15KPA33A	15KPA33CA	33.3	36.7	5.0	10	274	54.8		
15KPA36A	15KPA36CA	36.0	40.0	5.0	10	251	59.7		
15KPA40A	15KPA40CA	40.0	44.4	5.0	10	228	65.8		
15KPA43A	15KPA43CA	43.0	47.8	5.0	10	215	69.7		
15KPA45A	15KPA45CA	45.0	50.0	5.0	10	205	73.0		
15KPA48A	15KPA48CA	48.0	53.3	5.0	10	193	77.7		
15KPA51A	15KPA51CA	51.0	56.7	5.0	10	181	82.8		
15KPA54A	15KPA54CA	54.0	60.0	5.0	10	171	87.5		
15KPA58A	15KPA58CA	58.0	64.4	5.0	10	160	94.0		
15KPA60A	15KPA60CA	60.0	66.7	5.0	10	154	97.3		
15KPA64A	15KPA64CA	64.0	71.1	5.0	10	144	104.0		
15KPA70A	15KPA70CA	70.0	77.8	5.0	10	132	114.0		
15KPA75A	15KPA75CA	75.0	83.3	5.0	10	123	122.0		
15KPA78A	15KPA78CA	78.0	86.7	5.0	10	119	126.0		
15KPA85A	15KPA85CA	85.0	94.4	5.0	10	109	137.0		
15KPA90A	15KPA90CA	90.0	100.0	5.0	10	103	146.0		
15KPA100A	15KPA100CA	100.0	111.0	5.0	10	93	162.0		
15KPA110A	15KPA110CA	110.0	122.0	5.0	10	84	178.0		
15KPA120A	15KPA120CA	120.0	133.0	5.0	10	78	193.0		
15KPA130A	15KPA130CA	130.0	144.0	5.0	10	72	209.0		
15KPA150A	15KPA150CA	150.0	167.0	5.0	10	62	243.0		
15KPA160A	15KPA160CA	160.0	178.0	5.0	10	58	259.0		
15KPA170A	15KPA170CA	170.0	189.0	5.0	10	55	275.0		
15KPA180A	15KPA180CA	180.0	200.0	5.0	10	52	291.0		
15KPA200A	15KPA200CA	200.0	222.0	5.0	10	47	322.0		
15KPA220A	15KPA220CA	220.0	245.0	5.0	10	42	356.0		
15KPA240A	15KPA240CA	240.0	267.0	5.0	10	39	388.0		
15KPA260A	15KPA260CA	260.0	289.0	5.0	10	36	419.0		
15KPA280A	15KPA280CA	280.0	311.0	5.0	10	33	452.0		

For bidirectional type having V_{RWM} of 30 volts and less , I_R limit is double
 For parts without A or with C , the V_{BR} is $\pm 10\%$
 For parts with A or with CA , the V_{BR} is $\pm 5\%$