FEATURES



P600

- Glass passivated junction.
- 15000W Peak Pulse Power capability at 10/1000μs waveform，repetition rate（duty cycles）：0.05%.
- Excellent clamping capability.
- Low incremental surge resistance.
- Very fast response time;
- Typical I_R less than 2μA above 36V.

MECHANICAL DATA

- Case: Molded plastic over glass passivated junction.
- Terminals: Plated Axial leads, solderable per MIL-STD-750, Method 2026.
- Polarity : Color band denotes cathode except bipolar.
- Weight : 2.5 grams.

DEVICES FOR BIPOLAR APPLICATIONS

- Bidirectional types use CA suffix.
- Electrical Characteristics apply in both directions.

MAXIMUM RATINGS

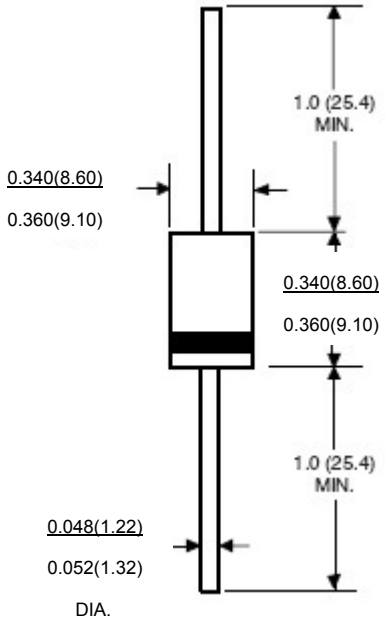
Ratings at 25 ambient temperature unless otherwise specified.

Type Number	Symbol	Value	Units
Peak Pulse Power Dissipation with 10/1000μs waveform （Fig.1）（Note 1）	P_{PPM}	15000	Watts
Steady State Power Dissipation on infinite heat sink at T_L= 75°C（Fig.5）	P_D	8.0	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Unidirectional only (Note 2)	I_{FSM}	400	A
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to + 175	°C

Notes: 1. Non-repetitive current pulse and derated above T_A= 25°C.
2. 8.3ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minutes maximum.

PACKAGE DIMENSIONS

P600



ORDERING INFORMATION

15 KP □□□ C A

- A — 5% Voltage Tolerance
- C — Bi-Directional
- □□□ — Stand-off Voltage

PACKAGING

Part Number	Component Package	Quantity
15KPxxxA/CA	P600	500

ELECTRICAL CHARACTERISTICS

15KP Device	Reverse Stand-off Voltage	Breakdown Voltage Min.@I_T	Breakdown Voltage Max.@I_T	Test Current	Maximum Clamping Voltage @I_{ppm}	Maximum Peak Pulse Current	Maximum Reverse Leakage @V_{RWM}
	V_{RWM}(v)	$V_{BR\ Min.}$(V)	$V_{BR\ Max.}$(V)	I_T (mA)	V_C (V)	I_{ppm} (A)	I_R (uA)
15KP17A/CA	17.0	18.99	20.79	50	29.3	515.4	5000
15KP18A/CA	18.0	20.11	22.01	50	30.9	488.7	5000
15KP20A/CA	20.0	22.34	24.46	20	34.3	440.2	1500
15KP22A/CA	22.0	24.57	26.91	10	37.1	407.0	500
15KP24A/CA	24.0	26.81	29.35	5	40.7	371.0	50
15KP26A/CA	26.0	29.04	31.80	5	44.0	343.2	25
15KP28A/CA	28.0	31.28	34.24	5	47.5	317.9	15
15KP30A/CA	30.0	33.51	36.7	5	50.7	297.8	2
15KP33A/CA	33.0	36.9	40.4	5	54.7	276.1	2
15KP36A/CA	36.0	40.2	44.0	5	59.8	252.5	2
15KP40A/CA	40.0	44.7	48.9	5	65.8	229.5	2
15KP43A/CA	43.0	48.0	52.6	5	69.8	216.3	2
15KP45A/CA	45.0	50.3	55.0	5	72.8	207.4	2
15KP48A/CA	48.0	53.6	58.7	5	77.7	194.3	2
15KP51A/CA	51.0	57.0	62.4	5	82.9	182.1	2
15KP54A/CA	54.0	60.3	66.0	5	87.7	172.2	2
15KP58A/CA	58.0	64.8	70.9	5	93.8	161.0	2
15KP60A/CA	60.0	67.0	73.4	5	97.4	155.0	2
15KP64A/CA	64.0	71.5	78.3	5	104.2	144.9	2
15KP70A/CA	70.0	78.2	85.6	5	113.6	132.9	2
15KP75A/CA	75.0	83.8	91.7	5	122.0	123.8	2
15KP78A/CA	78.0	87.1	95.4	5	126.1	119.7	2
15KP85A/CA	85.0	94.9	104.0	5	137.6	109.7	2

ELECTRICAL CHARACTERISTICS

15KP Device	Reverse Stand-off Voltage	Breakdown Voltage Min.@I_T	Breakdown Voltage Max.@I_T	Test Current	Maximum Clamping Voltage @I_{ppm}	Maximum Peak Pulse Current	Maximum Reverse Leakage @V_{RWM}
	V_{RWM}(v)	$V_{BR\ Min.}$(V)	$V_{BR\ Max.}$(V)	I_T (mA)	V_C (V)	I_{ppm} (A)	I_R (uA)
15KP90A/CA	90.0	100.5	110.1	5	145.6	103.7	2
15KP100A/CA	100.0	111.7	122.3	5	161.3	93.6	2
15KP110A/CA	110.0	122.9	134.5	5	178.6	84.5	2
15KP120A/CA	120.0	134.0	146.8	5	192.3	78.5	2
15KP130A/CA	130.0	145.2	159.0	5	208.3	72.5	2
15KP150A/CA	150.0	167.6	183.5	5	241.9	62.4	2
15KP160A/CA	160.0	178.7	195.7	5	258.6	58.4	2
15KP170A/CA	170.0	189.9	207.9	5	272.7	55.4	2
15KP180A/CA	190.0	201.1	220.1	5	288.5	52.3	2
15KP200A/CA	200.0	223.4	244.6	5	319.1	47.3	2
15KP220A/CA	220.0	245.7	269.1	5	356.0	42.4	2
15KP240A/CA	240	268.1	293.5	5	384.6	39.3	2
15KP260A/CA	260	290.4	318.0	5	416.7	36.2	2
15KP280A/CA	280	312.8	342.4	5	454.5	33.2	2

Notes: For bidirectional type having V_{RWM} of 30 volts and less，the I_R limit is double.

TYPICAL CHARACTERISTICS

