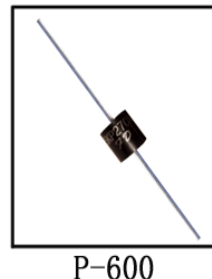


特性/机械性能:
FEATURES/MECHANICAL DATA

- ◆ 15000W 峰值脉冲功率 15000W peak pulse power capability
- ◆ 优良的箝制能力 Excellent clamping capability
- ◆ 较小的箝位因子 Smaller clamping factor
- ◆ 快速响应时间: 从: 0v到 VBR, 单向型小于1.0ps, 双向型小于5.0ns
Fast response time: typically less than 1.0ps from 0v to VBR for unidirectional and 5.0ns for bidirectional types.
- ◆ 耐焊接热: 250℃/10S, 引出端0.495" (12.5mm) 处
Resistance to soldering heat: 250 °C /10S, terminal 0.495" (12.5mm) .
- ◆ 封装: 模塑封装 Case: Molded plastic
- ◆ 塑封材料: 用UL94V-0认可的阻燃环氧料 Epoxy: UL94V-0 rate flame retardant
- ◆ 引线: 电镀轴式引线可焊性符合MIL-STD-202,方法208
Lead: Axial lead solderable per MIL-STD-202, method 208
- ◆ 极性: 色带表示阴极, Polarity: Color band denotes cathode except Bipolar
- ◆ 安装位置: 任意 Mounting position: Any



P-600

最大额定值及电气特性:
MAXIMUM RATINGS AND CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
额定值在25℃环境温度下,除非另有规定。

参数名称 Part Number	符号Symbol	额定值 Value	单位Unit
最大峰值脉冲功率 Peak power dissipation	Pppm	最小 (Min) 15000	W
最大峰值反向脉冲电流 (注释1) Peak pulse reverse current (Note1)	Ippm	见表 (See Table)	A
稳态功率 (注释2) Steady state power dissipation (Note2)	Pm(AV)	8.0	W
最大峰值正向浪涌电流 (注释3) 仅对单向型 Maximum Peak Forward surge Current (Note3)For unidirectional only	IFSM	400.0	A
工作及储存温度 Operating and Storage Temperature Range	TJ,TSTG	-55~+175	℃

注 释: NOTES:

1. 脉冲电流时间10 / 1000μs. 10 / 1000μs waveform non-repetitive current pulse
2. T1=75℃, 在引线12.5mm处. T1=75℃, lead lengths 0.495inches.
3. 使用单相正弦半波, 时间10ms; 或使用等效的方波, 4周波/分。
Measured on 10ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

双向型器件应用说明: DEVICES FOR BIDIRECTIONAL APPLICATIONS :

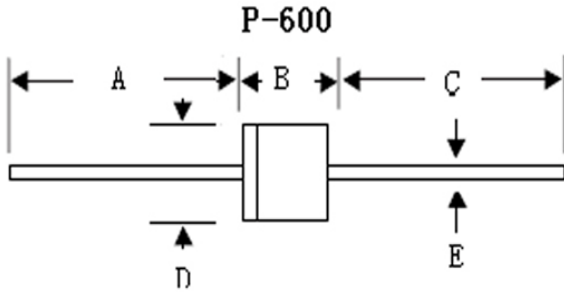
1. 在型号名称后注有C 或CA , 表示双向型. For bidirectional use C or CA suffix for types
2. 电气特性适用于两个方向. Electrical characteristics apply in both directions.

[15KPA Series]

Transient Voltage Suppressor 瞬变电压抑制二极管 TVS

产品外形尺寸:

PRODUCT APPEARANCE SIZE



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	1.0		25.4	
B	0.340	0.360	8.6	9.1
C	1.0		25.4	
D	0.340	0.360	8.6	9.1
E	0.0480	0.0520	1.2	1.3

电特性:

ELECTRICAL CHARACTERISTICS

型号 Device Type	击穿电压 Breakdown Voltage(Note 1)		测试电流 Test Current	变位电压 Stand-off Voltage	最大反向漏电流 @V _{WM} Maximum Reverse leakage @V _{WM}	最大峰值脉冲 浪涌电流 Maximum Peak Pulse Reverse Current	最大箝位电压 @I _{ppm} Maximum Clamping Voltage @I _{ppm}
	V _(BR) (V) MIN	V _(BR) (V) MAX	I _T (mA)	V _{WM} (V)	I _D (μA) (Note 2)	I _{ppm} (A)	V _C (V)
15KPA17A	18.99	20.79	50	17	5000	515.4	29.3
15KPA18A	20.11	22.01	50	18	5000	488.7	30.9
15KPA20A	22.34	24.46	20	20	1500	440.2	34.3
15KPA22A	24.57	26.91	10	22	500	407.0	37.1
15KPA24A	26.81	29.35	5	24	150	371.0	40.7
15KPA26A	29.04	31.80	5	26	50	343.2	44.0
15KPA28A	31.28	34.24	5	28	25	317.9	47.5
15KPA30A	33.51	36.69	5	30	15	297.8	50.7
15KPA33A	36.9	40.4	5	33	10	276.1	54.7
15KPA36A	40.2	44.0	5	36	10	252.5	59.8
15KPA40A	44.7	48.9	5	40	10	229.5	65.8
15KPA43A	48.0	52.6	5	43	10	216.3	69.8
15KPA45A	50.3	55.0	5	45	10	207.4	72.8
15KPA48A	53.6	58.7	5	48	10	194.3	77.7
15KPA51A	57.0	62.4	5	51	10	182.1	82.9
15KPA54A	60.3	66.0	5	54	10	172.2	87.7
15KPA58A	64.8	70.9	5	58	10	161.0	93.8
15KPA60A	67.0	73.4	5	60	10	155.0	97.4
15KPA64A	71.5	78.3	5	64	10	144.9	104.2
15KPA70A	78.2	85.6	5	70	10	132.9	113.6
15KPA75A	83.8	91.7	5	75	10	123.8	122.0
15KPA78A	87.1	95.4	5	78	10	119.7	126.1
15KPA85A	94.9	104.0	5	85	10	109.7	137.6
15KPA90A	100.5	110.1	5	90	10	103.7	145.6
15KPA100A	111.7	122.3	5	100	10	93.6	161.3
15KPA110A	122.9	134.5	5	110	10	84.5	178.6
15KPA120A	134.0	146.8	5	120	10	78.5	192.3
15KPA130A	145.2	159.0	5	130	10	72.5	208.3

电特性:

ELECTRICAL CHARACTERISTICS

型 号 Device Type	击穿电压 Breakdown Voltage(Note1)		测试电流 Test Current	变位电压 Stand-off Volage	最大反向漏电流 @V _{WM} Maximum Reverse leadage @V _{WM}	最大峰值脉冲 浪涌电流 Maximum Peak Pulse Reverse Current	最大箝位电压 @I _{ppm} Maximum Clamping Voltage @I _{ppm}
	V (BR)(V) MIN	V (BR)(V) MAX	I _T (mA)	V _{WM} (V)	I _D (μA) (Note2)	I _{ppm} (A)	V _c (V)
15KPA150A	167.6	183.5	5	150	10	62.4	241.9
15KPA160A	178.7	195.7	5	160	10	58.4	258.6
15KPA170A	189.9	207.9	5	170	10	55.4	272.7
15KPA180A	201.1	220.1	5	180	10	52.3	288.5
15KPA200A	223.4	244.6	5	200	10	47.3	319.1
15KPA220A	245.7	269.1	5	220	10	35.2	428.6
15KPA240A	268.1	293.5	5	240	10	39.3	384.6
15KPA260A	290.4	318.0	5	260	10	36.2	416.7
15KPA280A	312.8	342.4	5	280	10	33.2	454.5

注 释: Notes :

1.V (BR) 值在施加IT 300μs后测量, IT 为方波或等效的脉冲波形。

2.对于双向型, VRWM在30V及30V以下, ID值加倍。

3.无后缀A表示V (BR) ±10%。

1. V (BR) measured after IT applied for 300μs, IT = square pulse or equivalent

2. For bidirectional types having VRWM of 30 volts and less, the ID limit is doubled.

3. For parts without A , the V (BR) is±10%

特性曲线图:

RATINGS AND CHARACTERISTIC CURVES

Figure1-peak pulse power rating curve

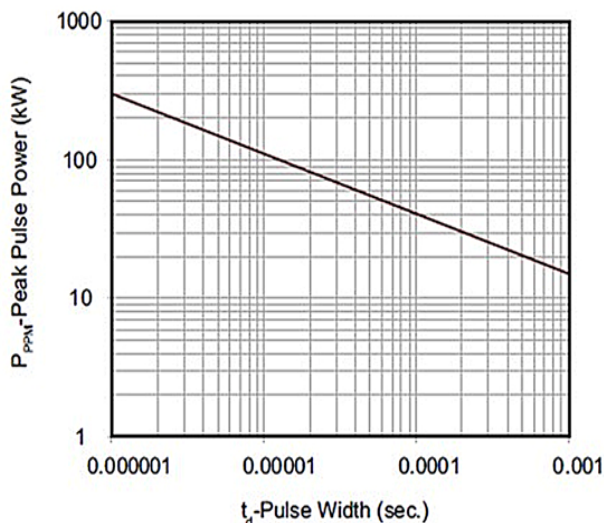
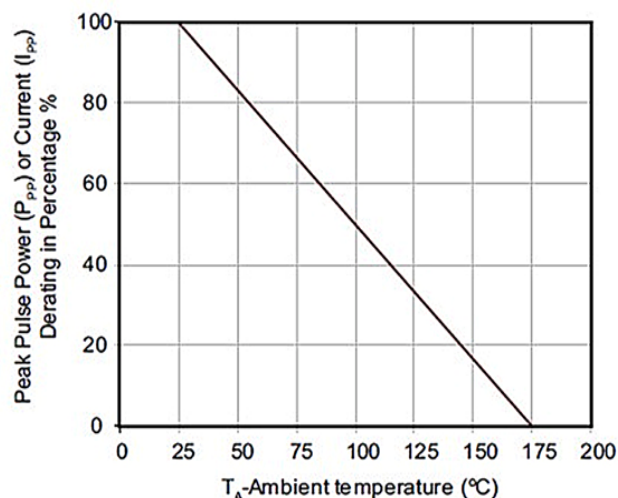


Figure -pulse derating curve



特性曲线图:

RATINGS AND CHARACTERISTIC CURVES

Figure 3-pulse waveform

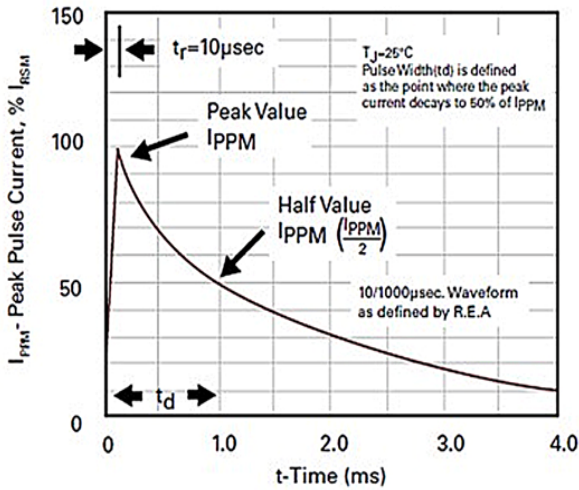


Figure 4 -Typical junction capacitance

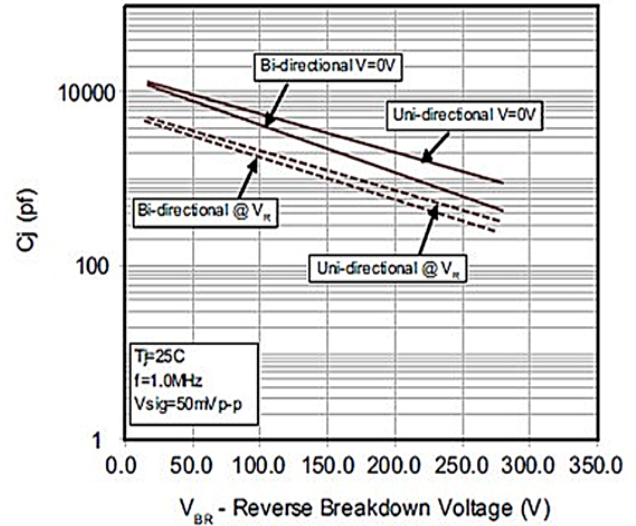


Figure 5 -Steady state power dissipation derating curve

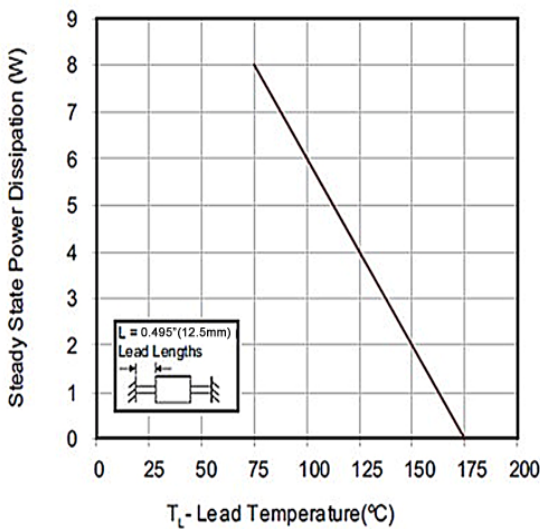


Figure 6 -Maximum non-repetitive forward surge current uni-directional only

