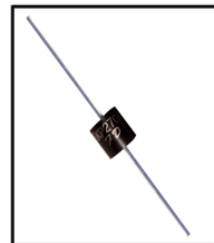


特性/机械性能:
FEATURES/MECHANICAL DATA

- ◆ 20000W 峰值脉冲功率 20000W 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: 0 v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

测量环境温度均为25℃, 除非另有规定。

Rating at 25°C ambient temperature unless otherwise specified.

参 数 名 称 Papt 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) 20000	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	°C

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.

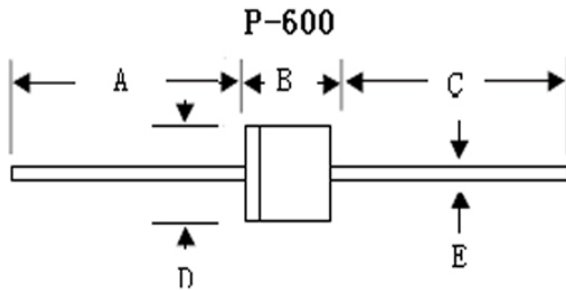
双向型器件应用说明: DEVICES FOR BIDIRECTIONAL APPLICATIONS :

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.

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)
20KPA20A	22.34	24.38	50	20	5000	548.9	36.8
20KPA24A	26.81	29.26	50	24	5000	490.3	41.2
20KPA26A	29.04	31.69	50	26	2000	451.9	44.7
20KPA28A	31.28	34.13	50	28	1000	420.8	48.0
20KPA30A	33.51	36.57	5	30	250	392.2	51.5
20KPA32A	35.74	39.01	5	32	150	372.0	54.3
20KPA34A	38.0	41.4	5	34	50	351.3	57.5
20KPA36A	40.2	43.9	5	36	20	328.5	61.5
20KPA40A	44.7	48.8	5	40	15	297.9	67.8
20KPA44A	49.1	53.6	5	44	10	277.9	72.7
20KPA48A	53.6	58.5	5	48	10	254.4	79.4
20KPA52A	58.1	63.4	5	52	10	235.4	85.8
20KPA56A	62.6	68.3	5	56	10	218.1	92.6
20KPA60A	67.0	73.1	5	60	10	207.0	97.6
20KPA64A	71.5	78.0	5	64	10	194.2	104
20KPA68A	76.0	82.9	5	68	10	183.6	110
20KPA72A	80.4	87.8	5	72	10	174.1	116
20KPA80A	89.4	97.5	5	80	10	155.4	130
20KPA88A	98.3	107.3	5	88	10	142.3	142
20KPA96A	107.2	117.0	5	96	10	130.3	155
20KPA104A	116.2	126.8	5	104	10	120.2	168
20KPA112A	125.1	136.5	5	112	10	111.0	182
20KPA120A	134.0	146.3	5	120	10	104.1	194
20KPA132A	147.4	160.9	5	132	10	94.8	213
20KPA144A	160.8	175.5	5	144	10	87.1	232
20KPA160A	178.7	195.0	5	160	10	78.3	258
20KPA172A	192.1	209.7	5	172	10	72.9	277
20KPA180A	201.1	219.4	5	180	10	69.4	291

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 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	IT(mA)	V _{WM} (V)	ID(μA) (Note2)	I _{ppm} (A)	V _c (V)
20KPA192A	214.5	234.0	5	192	10	65.4	309
20KPA204A	227.9	248.7	5	204	10	61.4	329
20KPA216A	241.3	263.3	5	216	10	58.0	348
20KPA232A	259.1	282.8	5	232	10	54.0	374
20KPA240A	268.1	292.6	5	240	10	52.2	387
20KPA256A	286.0	312.1	5	256	10	49.0	412
20KPA280A	312.8	341.3	5	280	10	44.8	451
20KPA300A	335.1	365.7	5	300	10	41.8	483

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40V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 40 volts, 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

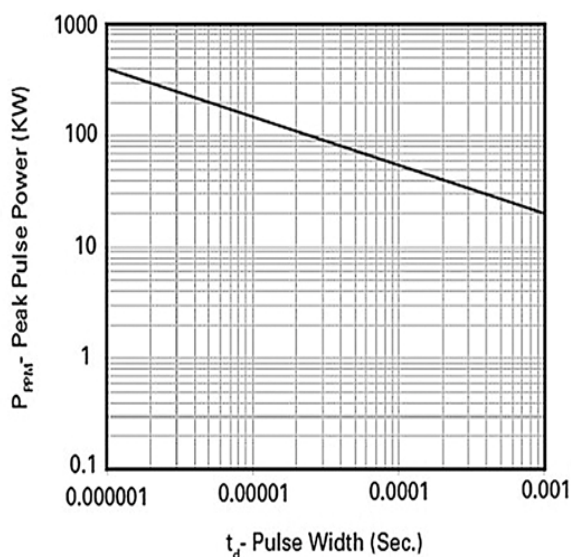
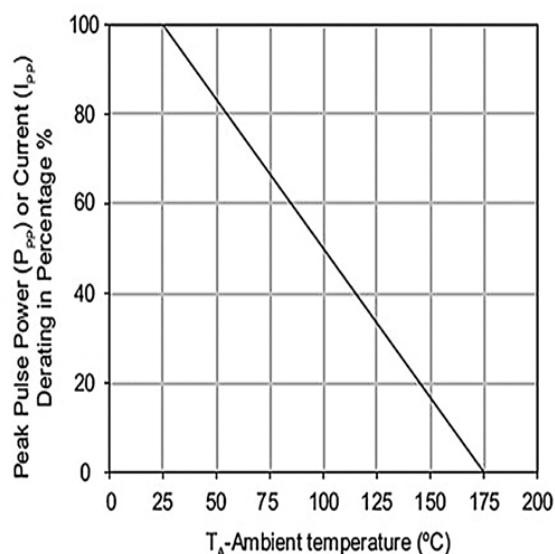


Figure -pulse derating curve



特性曲线图:

RATINGS AND CHARACTERISTIC CURVES

Figure 3-pulse waveform

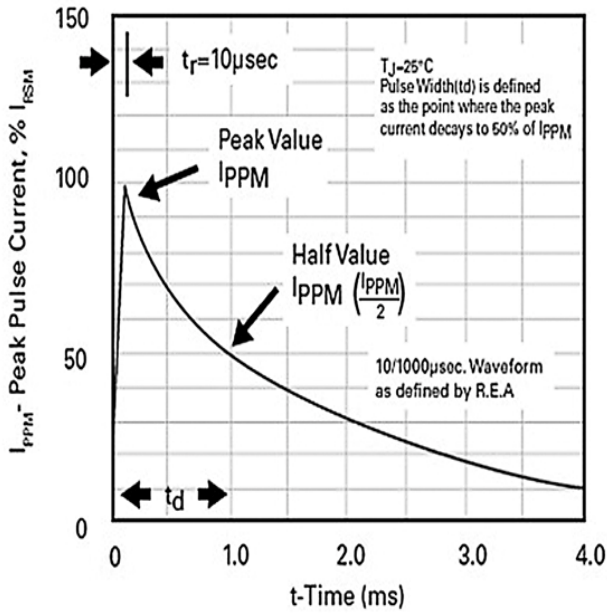


Figure 4 -Typical junction capacitance

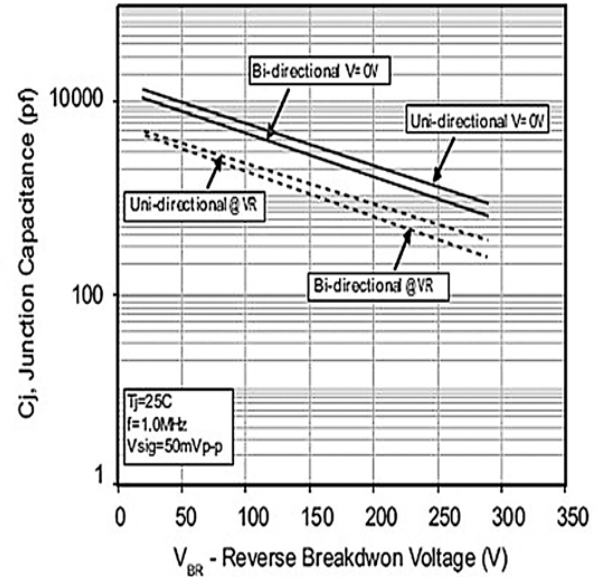


Figure 5 -Steady state power dissipation derating curve

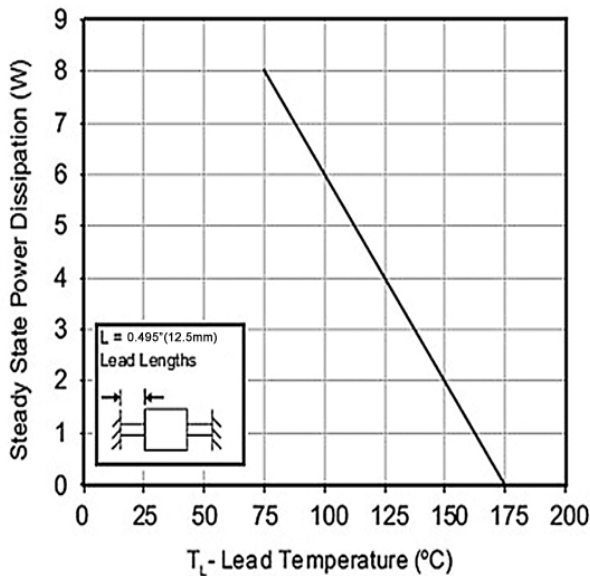


Figure 6 -Maximum non-repetitive forward surge current uni-directional only

