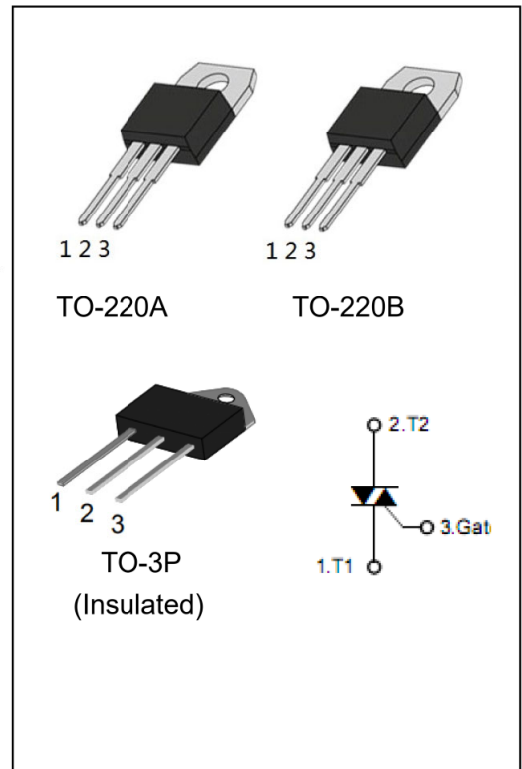


◆ **描述:**

DTJ16A60/80/120 三端双向可控硅具有承受大
 载荷冲击的能力，能提供高的 dv/dt ，对电磁
 干扰有很强的抵抗力。是具有高换向性能的三象
 限产品。特别推荐使用用于感性负载。

◆ **主要特征:**

符号	规范值	单位
$I_{T(RMS)}$	16.0	A
V_{DRM}/V_{RRM}	600/800/1200	V



◆ **极限值:**

参数	符号	数值	单位
贮存温度	T_{stg}	-40~150	°C
结温	T_j	-40~125	°C
断态重复峰值电压($T_j=25^{\circ}C$)	V_{DRM}	600/800/1200	V
反向重复峰值电压($T_j=25^{\circ}C$)	V_{RRM}	600/800/1200	V
通态均方根电流	$I_{T(RMS)}$	16	A
浪涌电流(全波, $t_p=20mS$)	I_{TSM}	250	A
I^2t 值 ($t_p=10ms$)	I^2t	340	A^2s
通态电流临界上升率($I_G=2 \times I_{GT}$) $T_j=125^{\circ}C$	di/dt	50	$A/\mu s$
门极峰值电流	I_{GM}	4	A
门极平均功率	$P_{G(AV)}$	1	W
门极峰值功率	P_{GM}	10	W

◆ 电特性 ($T_j=25^\circ\text{C}$, 除非另有说明):

参数	测试条件	象限		数值	单位
I_{GT}	$V_D=12\text{V}, R_L=33\Omega$	I - II - III	MAX	35	mA
V_{GT}				1.3	V
V_{GD}	$V_D=V_{DRM} T_j=125^\circ\text{C}$	I - II - III	MIN	0.2	V
I_H	$I_T=100\text{mA}$		MAX	35	mA
I_L	$I_G=1.2I_{GT}$	I - III	MAX	50	mA
		II		60	
dV/dt	$V_D=2/3V_{DRM} T_j=125^\circ\text{C}$	G 极开路	MIN	1000	V/ μs

◆ 静态特性

符号	测试条件			数值	单位	
V_{TM}	$I_{TM}=35\text{A}$	$t_p=380\mu\text{s}$	$T_j=25^\circ\text{C}$	MAX	1.5	V
I_{DRM} I_{RRM}	$V_{DRM}=V_{RRM}$		$T_j=25^\circ\text{C}$	MAX	5	μA
			$T_j=125^\circ\text{C}$		1	mA

◆ 热阻

符号	测试条件		数值	单位
$R_{th(j-c)}$	结到外壳(AC)	TO-220A(绝缘)	1.5	$^\circ\text{C}/\text{W}$
		TO-220B(非绝缘)	1.1	
		TO-3P(绝缘)	0.67	

◆ 产品命名规范

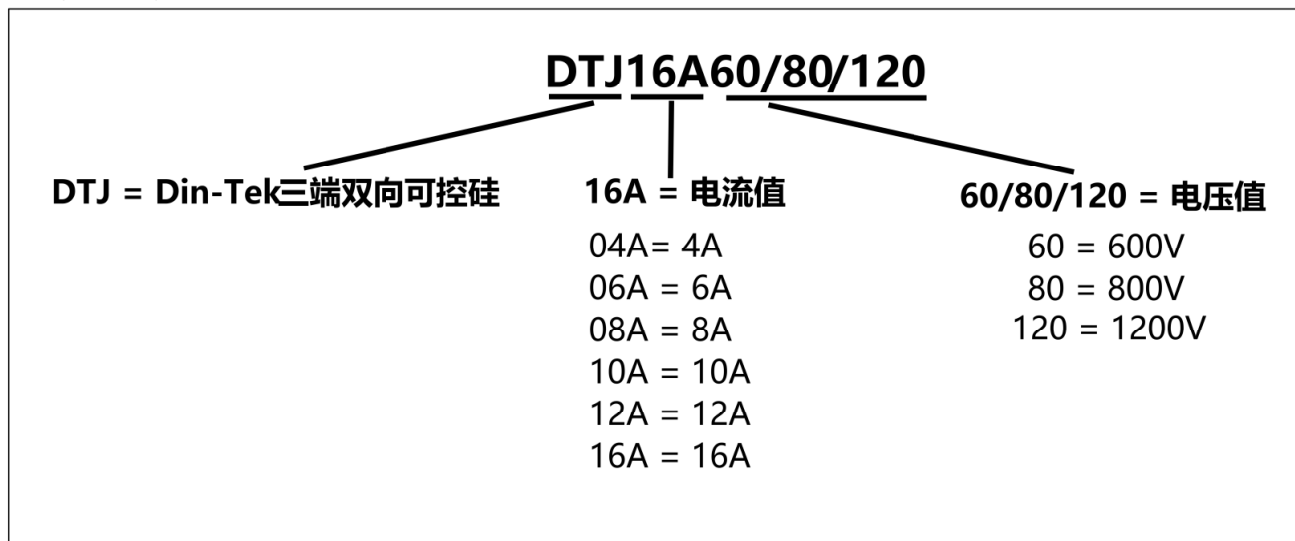


图 1: 最大功耗与均方根电流的关系

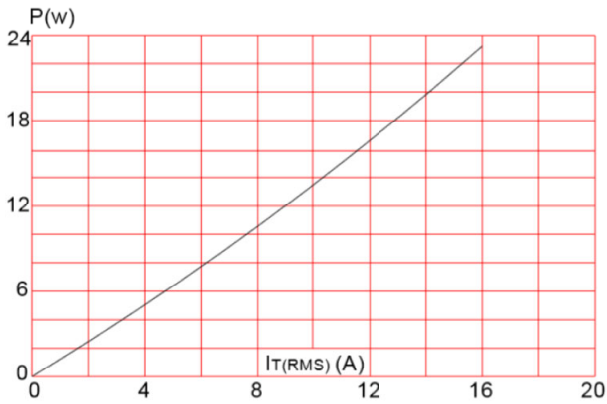


图 2: 均方根电流与温度的变化

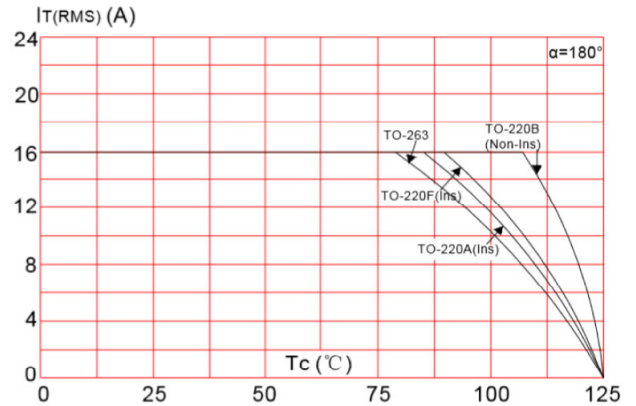


图 3: 浪涌电流峰值与循环次数

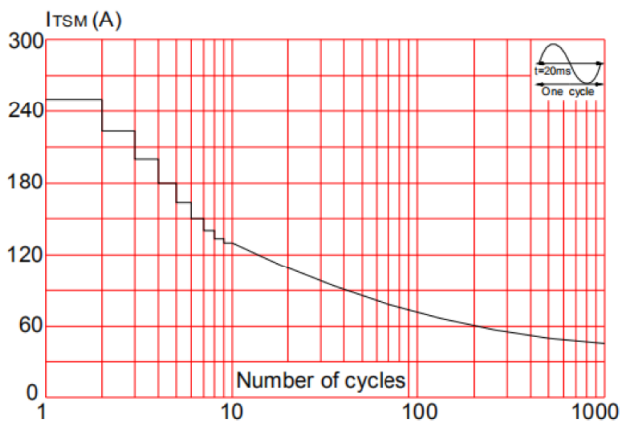


图 4: 通态特征 (最大值)

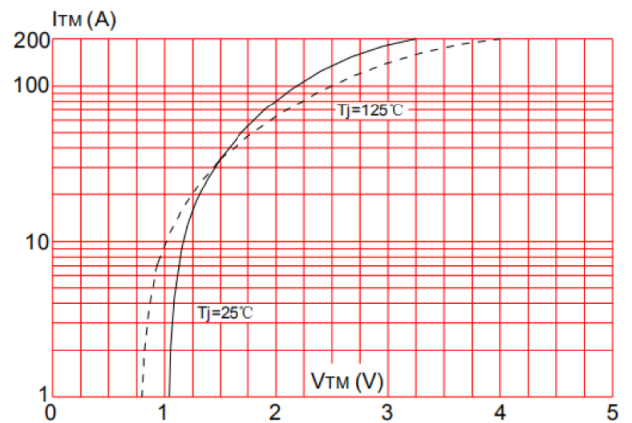


图 5: 正弦波脉冲宽度 $t_p < 20ms$ 下的非重复浪涌电流和 I^2t 的相对值

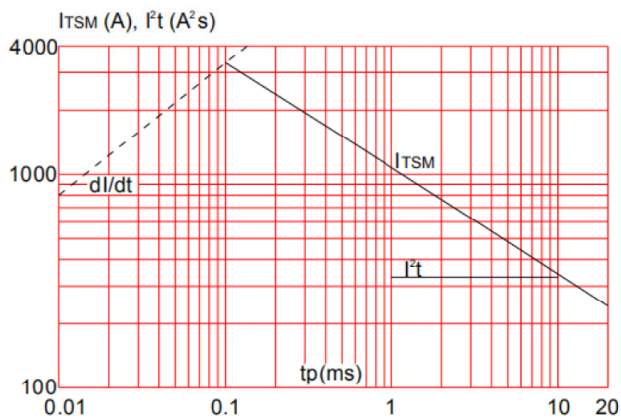
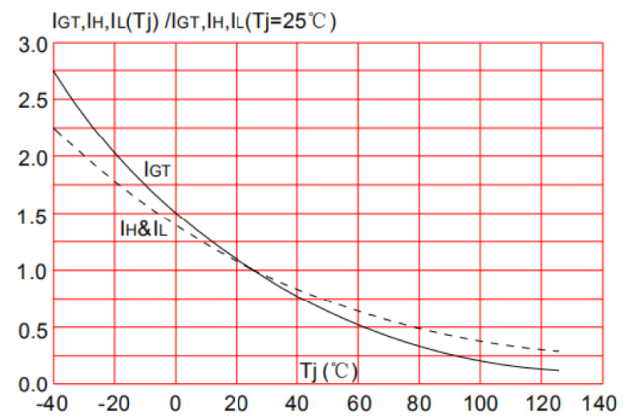
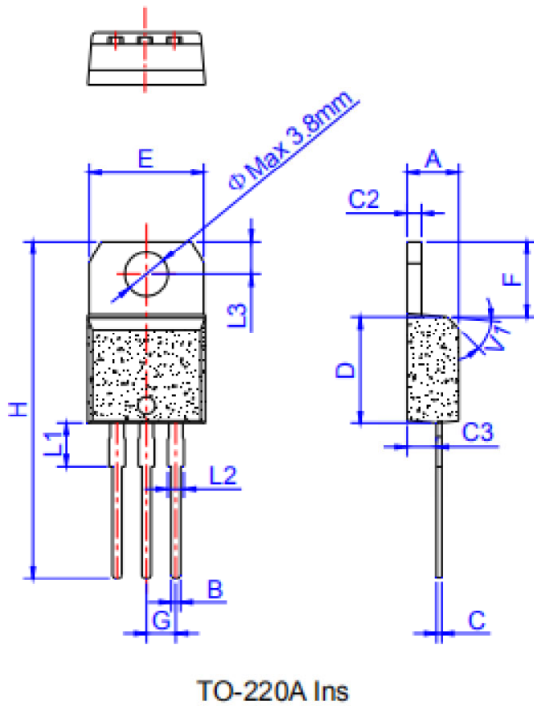


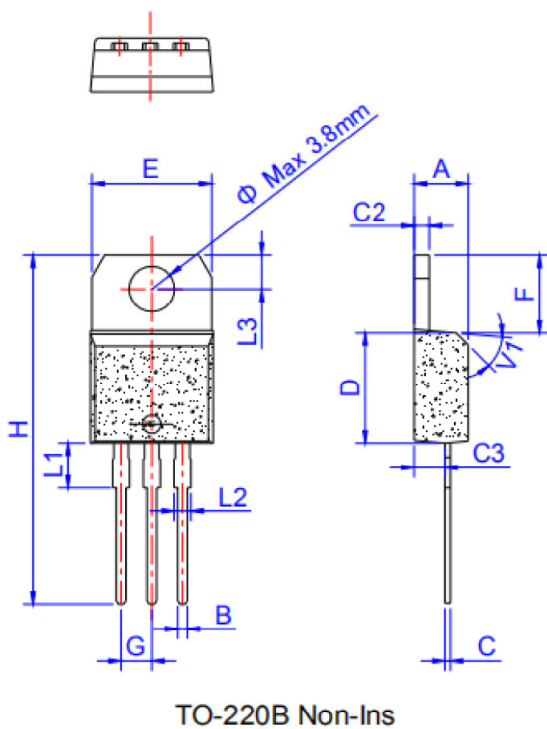
图 6: 门极触发电流、维持电流和擎住电流与温度的关系



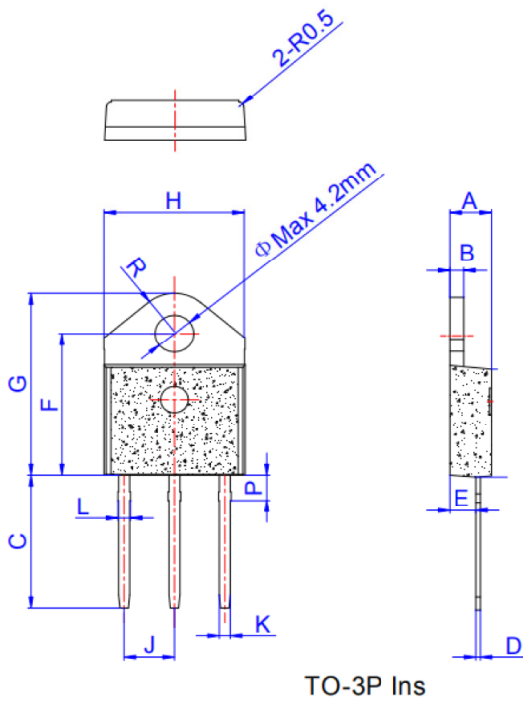
封装外型尺寸:



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.40		4.60	0.173		0.181
B	0.61		0.88	0.024		0.035
C	0.46		0.70	0.018		0.028
C2	1.21		1.32	0.048		0.052
C3	2.40		2.72	0.094		0.107
D	8.60		9.70	0.339		0.382
E	9.80		10.4	0.386		0.409
F	6.55		6.95	0.258		0.274
G		2.54			0.1	
H	28.0		29.8	1.102		1.173
L1		3.75			0.148	
L2	1.14		1.70	0.045		0.067
L3	2.65		2.95	0.104		0.116
V1		45°			45°	



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.40		4.60	0.173		0.181
B	0.61		0.88	0.024		0.035
C	0.46		0.70	0.018		0.028
C2	1.21		1.32	0.048		0.052
C3	2.40		2.72	0.094		0.107
D	8.60		9.70	0.339		0.382
E	9.60		10.4	0.378		0.409
F	6.20		6.60	0.244		0.260
G		2.54			0.1	
H	28.0		29.8	1.102		1.173
L1		3.75			0.148	
L2	1.14		1.70	0.045		0.067
L3	2.65		2.95	0.104		0.116
V1		45°			45°	



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.40		4.60	0.173		0.181
B	1.45		1.55	0.057		0.061
C	14.35		15.60	0.565		0.614
D	0.50		0.70	0.020		0.028
E	2.70		2.90	0.106		0.114
F	15.80		16.50	0.622		0.650
G	20.40		21.10	0.803		0.831
H	15.10		15.50	0.594		0.610
J	5.40		5.65	0.213		0.222
K	1.10		1.40	0.043		0.055
L	1.35		1.50	0.053		0.059
P	2.80		3.00	0.110		0.118
R		4.35			0.171	

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