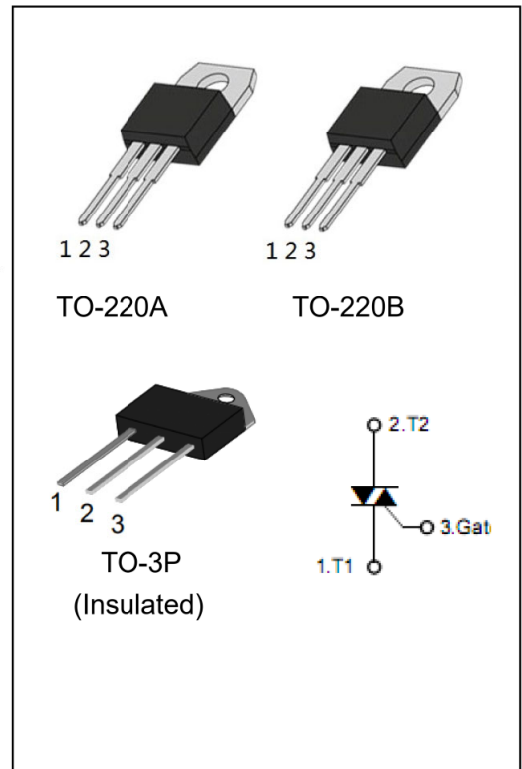


◆ **描述:**

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

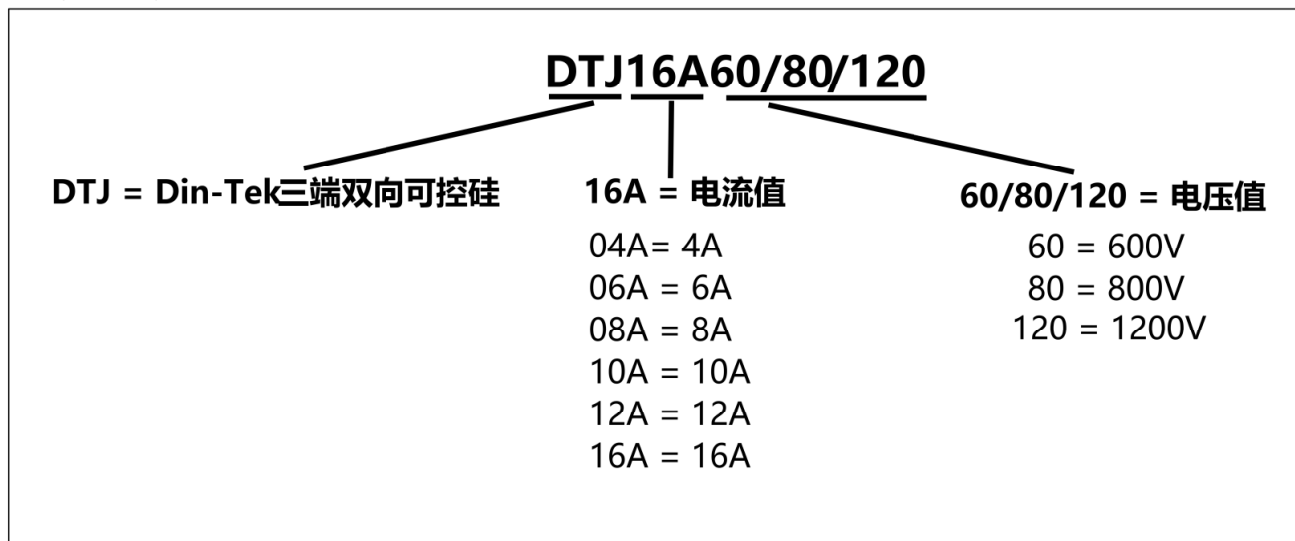


图 1: 最大功耗与均方根电流的关系

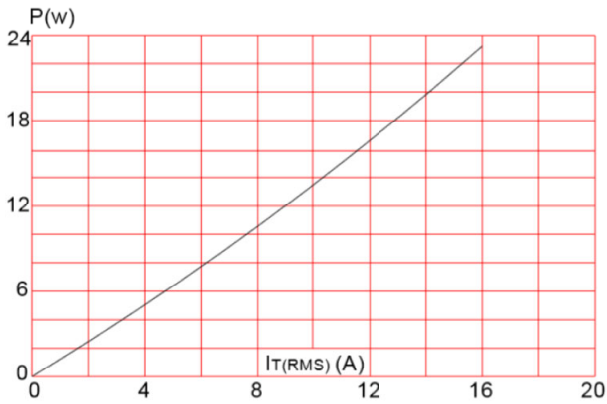


图 2: 均方根电流与温度的变化

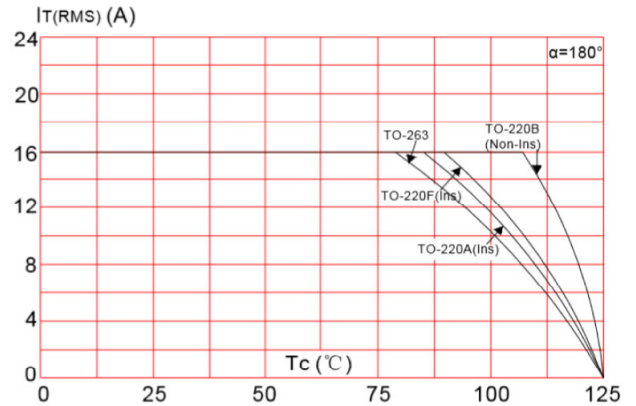


图 3: 浪涌电流峰值与循环次数

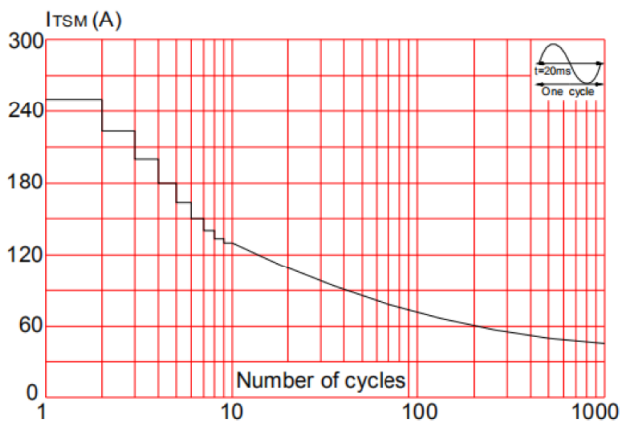


图 4: 通态特征 (最大值)

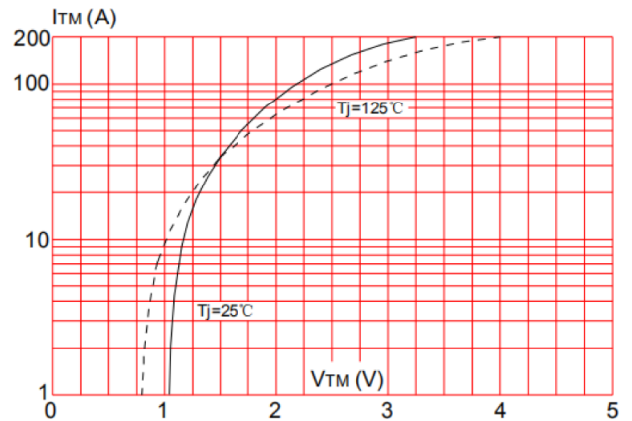


图 5: 正弦波脉冲宽度 $t_p < 20ms$ 下的非重复浪涌电流和 I^2t 的相对值

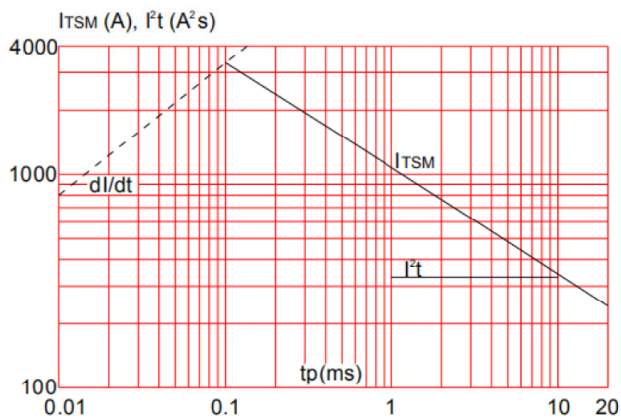
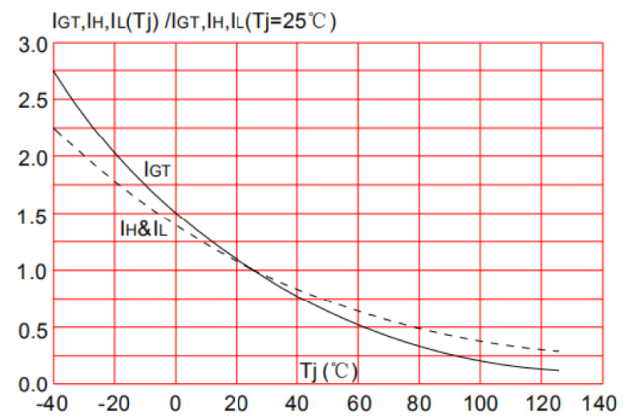


图 6: 门极触发电流、维持电流和擎住电流与温度的关系



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