

双向可控硅

KT系列双向可控硅

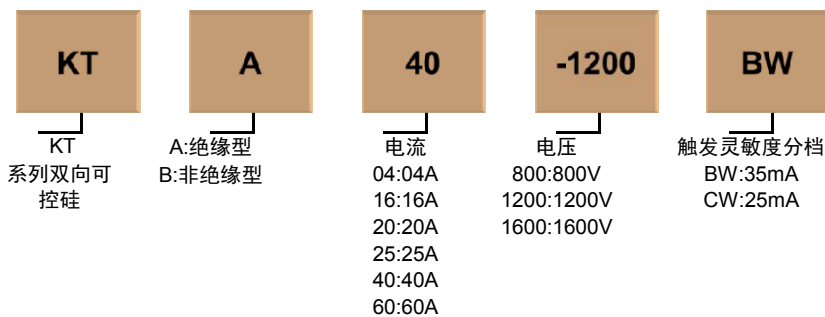


- 高电流密度
- 抗干扰能力强
- 符合UL标准

产品描述

KT系列双向可控硅采用国际标准封装，具有较高的电流密度，抗干扰能力强；电流分4A,16A,20A,25A, 40A和60A六档，电压有800V,1200V和1600V。广泛应用于各种电机控制、电源转换器、AC电源控制器、开关模式和谐振模式电源、灯光和温度控制等场合。

产品选型



封装形式

TO-220A	TO-3P	TO-247S	TO-252
KTA16-1200BW KTA20-1200BW KTA25-800BW	KTA40-1200BW	KTB60-1600BW	KTB04-800CW

技术参数 (25°C下)

		KTB04XX	KTA16XX	KTA20XX	KTA25XX	KTA40XX	KTB60XX
$I_{T(RMS)}$		4A	16A	20A	25A	40A	60A
I_{TSM}		40A	160A	200A	300A	400A	600A
I^2t		20A ² s	144A ² s	200A ² s	400A ² s	880A ² s	1800A ² s
di/dt		50A/μs	50A/μs	100A/μs	50A/μs	50A/μs	100A/μs
I_{GM}		4A	4A	4A	4A	4A	8A
P_{GM}		5W	10W	10W	10W	10W	10W
$P_{G(AV)}$		1W	1W	1W	1W	1W	2W
I_{GT}	BW	35mA	35mA	35mA	35mA	35mA	35mA
	CW	25mA	25mA	25mA	25mA	~	~
V_{GT}		1.3V	1.3V	1.5V	1.5V	1.5V	1.7V
dv/dt min.	BW	1000V/μs	1000V/μs	1000V/μs	1000V/μs	1000V/μs	1000V/μs
	CW	400V/μs					

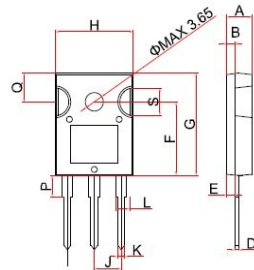
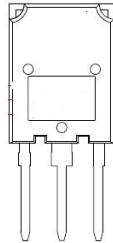
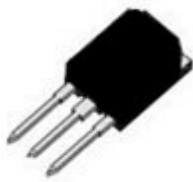
其他参数

T_j	- 40 ~ +125°C
T_{stg}	- 40 ~ +150°C

应用场合

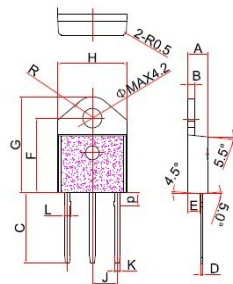
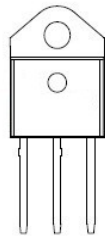
电机控制、电源转换器、AC电源控制器、开关模式和谐振模式电源、灯光和温度控制。

封装尺寸图



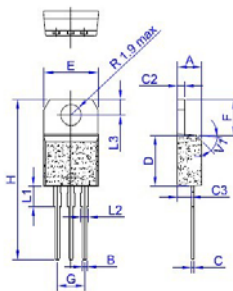
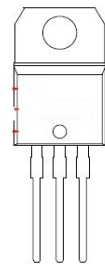
Ref.	Dimensions		Ref.	Dimensions	
	Min.	Max.		Min.	Max.
A	5.1	5.4	H	15.4	16.2
B	1.6	1.8	J	5.3	5.6
C	14.35	15.4	K	1.3	1.5
D	0.6	0.9	L	2	2.3
E	1.5	1.75	P	4.1	4.4
F	14.4	15.1	Q	5.6	5.8
G	19.7	20.6	S	5.35	5.65

TO-247S



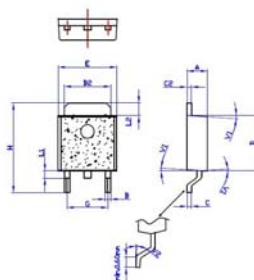
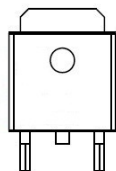
Ref.	Dimensions		Ref.	Dimensions	
	Min.	Max.		Min.	Max.
A	4.4	4.6	G	20.4	21.1
B	1.45	1.55	H	15.1	15.5
C	14.35	15.6	J	5.4	5.65
D	0.5	0.7	K	1.2	1.4
E	2.7	2.9	L	1.35	1.5
F	15.8	16.5	P	2.8	3

TO-3P



Ref.	Dimensions		Ref.	Dimensions	
	Min.	Max.		Min.	Max.
A	4.4	4.6	F	6.2	6.6
B	0.61	0.88	G	4.8	5.4
C	0.46	0.7	H	28	29.8
C2	1.23	1.32	L2	1.14	1.7
C3	2.4	2.72	L3	2.65	2.95
D	8.6	9.7			
E	9.8	10.4			

TO-220A



Ref.	Dimensions		Ref.	Dimensions	
	Min.	Max.		Min.	Max.
A	2.2	2.4	D	6	6.2
B	0.55	0.65	E	6.4	6.7
B2	5.1	5.4	G	4.4	4.7
C	0.45	0.62	H	9.5	10.4
C2	0.48	0.62	L2	1.37	1.5

TO-252

产品认证