

1A Series TRIAC: 1A 過壓保護 交流開關 【產品概況】

無鉛產品提供SGS環保認證、符合歐盟REACH法規、符合歐盟環保指令標準

概況: HACT110系列器件, 為瞬態抑制型双向可控硅, 高dv/dt能力, 抗干擾能力强;

专门针对IEC61000-4-4电快速瞬变脉冲群抗扰度试验、IEC61000-4-5电涌抗扰试验标准而开发设计。

特点

- 过压保护电路技术, 使设备满足IEC61000-4-5浪涌电流
- 高抗干扰防静电dV/dt技术
- 内置TVS, 无需外部保护缓冲电路, 无需压敏电阻
- 减少了元件数量高达80%, 直接与微控制器的接口
- 普通连接支持在相同的散热垫或几个交流电开关

应用

- 交流电静态开关设备、工业控制系统开/关;
- 小功率驱动、高感性或阻性负载, 如: 继电器、阀门、电磁阀、饮水机、泵、风机、低功率电机、门锁、以及各种灯具; 空气清新器、雾化器、加湿器等小家电、白电产品驱动等控制电路。

DESCRIPTION:

Sensitive gate triac in the TO-92 plastic package, intended for use in AC static switching and industrial control systems, driving low power highly inductive loads like solenoid, pump, fan, and micro-motor.

FEATURES:

dv/dt ≥ 500V/μs; high tolerance to external severe application environment such as EMS High Voltage blocking capability.

MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	1	A
I_{GT}	≤ 10	mA
V_{TM}	≤ 1.6	V

ORDERING INFORMATION

H	AC	T	1	10	-	1000	A
↓	↓	↓	↓	↓	↓	↓	↓
生產商 HAOHAI ELECTRONICS	品種表示: Overvoltage protected AC switch 过压保护 交流开关	品種 表示: TRIACs	電流 表示: $I_{T(RMS)}$ =1A	觸發電流 表示: I_{GT} ≤ 10mA		電壓值表示: 1000=1000V 1200=1200V	封裝表示: A:TO-92 N:SOT-223

可代替其它工業型號: ACS108-6SA、ACS108-8SA、ACS108-6SN、ACS108-8SN

主要應用於: 交流電靜態開關設備、工業控制系統開/關; 小功率驅動、高感性或阻性負載, 如:
繼電器、閥門、電磁閥、飲水機、泵、風機、低功率電機、門鎖、各種燈具
典型應用: 空氣清新器、霧化器、加湿器等小家電、白電產品驅動等控制電路

TO-92 (TO-226 / TO-226AA) or TO-92 Tape & Reel

Pin 管腳排列	Symbol 對應極性	Description 極性名詞	Description 極性含義	Plastic envelope Package		Marking 元件標識	Pin Polarity Circuit Diagram 腳位與極性 電路符號表示
				TO-92	TO-92編帶		
1	T1	Main terminal 1	第一陽極				
2	G	Gate	門-控制極				
3	T2	Main terminal 2	第二陽極				
4	---	---	---				
◇ 元件標識可按客戶指定要求 ◇ TO-92: 袋裝, 1000Pcs/包, 10Kpcs/盒, 100Kpcs/箱 ◇ TO-92編帶: 2Kpcs/盒, 50Kpcs/箱 ◇ 0.2g/Pcs, 每枚元件質量0.2克 ◇ 高壓規格機種、特殊觸發電流, 批量交期為6-8周						1=T1=MT1=第一陽極 2=G=門極 / 控制極 3=T2=MT2=第二陽極	

此規格SMD表面貼 SOT-89、SOT-223封裝同時生產, 需定制

ABSOLUTE MAXIMUM RATINGS

Parameter		Symbol	Value	Unit
Storage junction temperature range		T _{stg}	-40 to +150	°C
Operating junction temperature range		T _j	-40 to +125	
Repetitive Peak Off-state Voltage Repetitive Peak Reverse Voltage	HACT110-1000A HACT110-1200A T _j =25°C	V _{DRM} V _{RRM}	1000 1200	V
Non repetitive Surge Pake Off-state Voltage Non repetitive Pake Reverse Voltage	T _j =25°C	V _{DSM} V _{RSM}	V _{DRM} +100 V _{RRM} +100	
RMS on-state current (full sine wave)	T _c =57°C	I _{T(RMS)}	1	A
Non repetitive surge peak on-state current (One Full Cycle, Sine Wave, T _c =110°C)	tp=10ms	I _{TSM}	10	
	tp=8.3ms		11	
Peak gate current (tp=2μs, T _j =80°C)		I _{GM}	1	
I ² t Value for fusing (tp=10ms)		I ² t	1.12	A ² S
Average gate power dissipation (tp≤10ms, T _j =80°C)		P _{G(AV)}	0.2	W
Peak gate power dissipation (tp≤10ms, T _j =80°C)		P _{GM}	1	

ELECTRICAL CHARACTERISTICS (T_j=25°C unless otherwise specified)

Symbol	Test Condition	Quadrant		Ratings	Unit
I _{GT}	V _D =12V, R _L =30Ω	T2+ G+	MAX.	6	mA
		T2+ G-		10	
		T2- G-		10	
V _{GT}	V _D =12V, R _L =30Ω	ALL	MAX.	1.5	V
V _{GD}	V _D =V _{DRM} , R _L =3.3KΩ, T _j =125°C	ALL	MIN.	0.2	
I _L	I _G =1.2 I _{GT}	T2+ G+	MAX.	15	mA
		T2+ G-		25	
		T2- G-		10	
I _H	I _T =100mA		MAX.	10	
dV/dt	V _D =67%V _{DRM} gate open, T _j =125°C		MIN.	500	V/μS

STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V _{TM}	I _{TM} =1.4A, tp=380μS	T _j =25°C	1.6	V
I _{DRM} I _{RRM}	V _D =V _{DRM} , V _R =V _{RRM}	T _j =25°C	10	μA
		T _j =125°C	500	

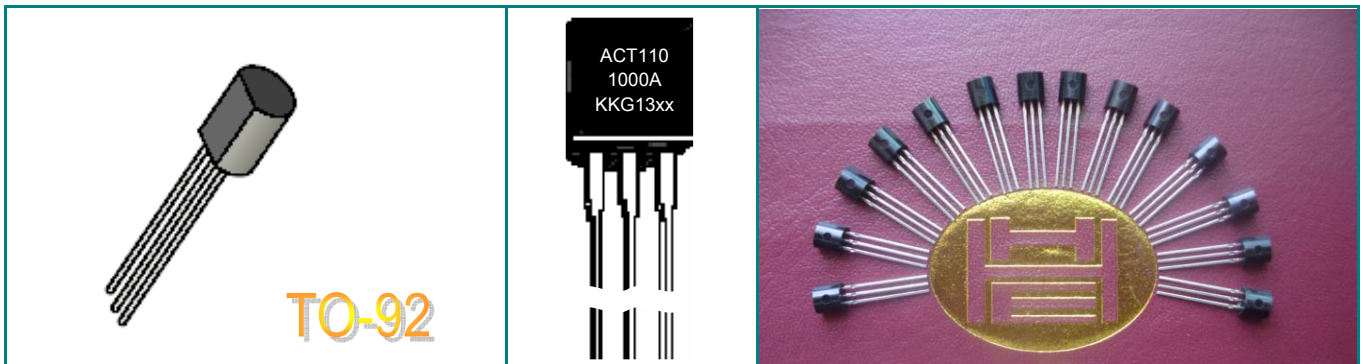
THERMAL RESISTANCES

Symbol	Parameter		Value	Unit
R _{th(J-C)}	Junction to Case(AC)	TO-92	60	°C/W

支持綠色環保!
該產品已實行無鉛制程封裝
符合RoHS環保指令標準!

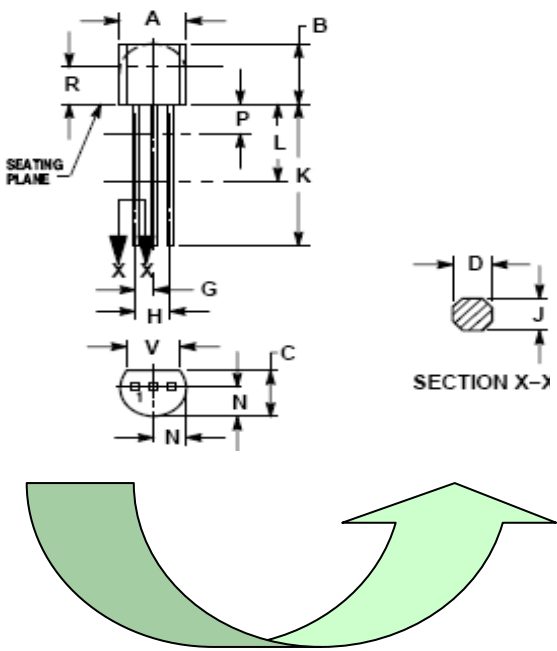


PACKAGE MECHANICAL DATA (mm)
TO-92 (TO-226AA) 直插封裝, 封裝尺寸 (單位:毫米)

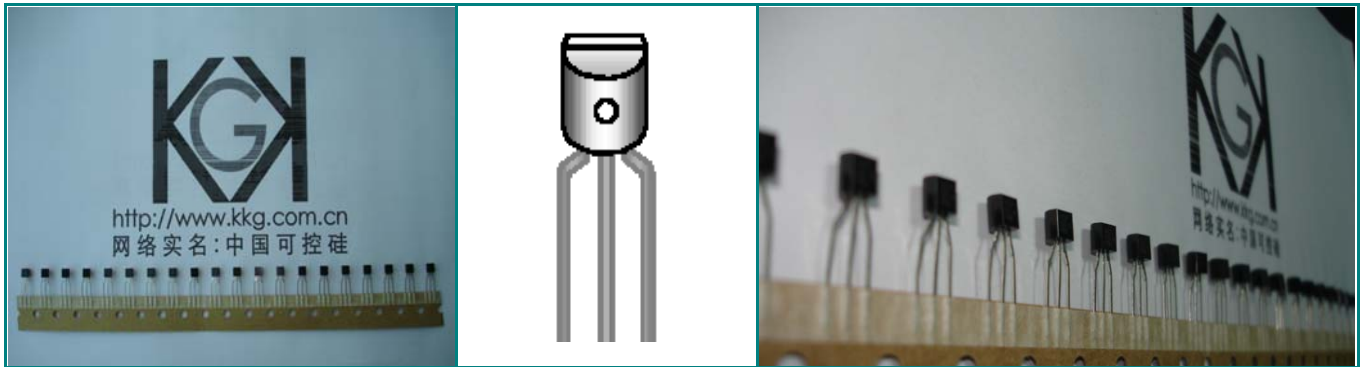


DIM	Inches 英寸單位		Millimeter 毫米單位	
	Min(最小)	Max(最大)	Min(最小)	Max(最大)
A	0.175	0.205	4.450	5.200
B	0.170	0.210	4.320	5.330
C	0.125	0.165	3.180	4.190
D	0.016	0.021	0.407	0.533
G	0.045	0.055	1.150	1.390
H	0.095	0.105	2.420	2.660
J	0.015	0.020	0.390	0.500
K	0.500	-----	12.70	----
L	0.250	-----	6.350	----
N	0.080	0.105	2.040	2.660
P	-----	0.100	----	2.540
R	0.115	----	2.930	----
V	0.135	----	3.430	----

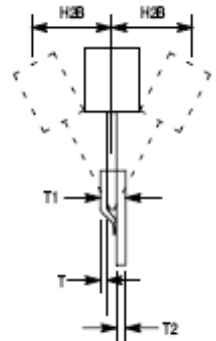
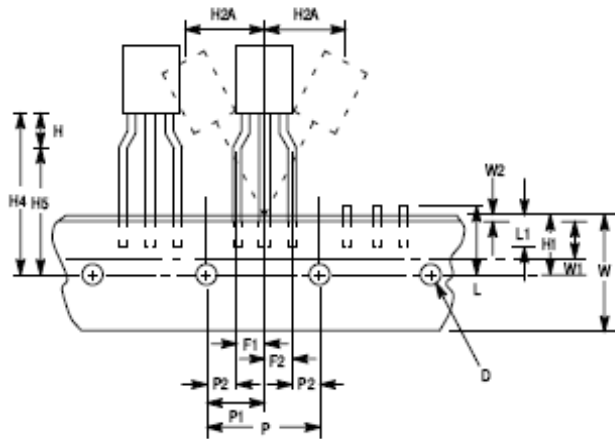
TO-92
or
TO-226
封裝尺寸



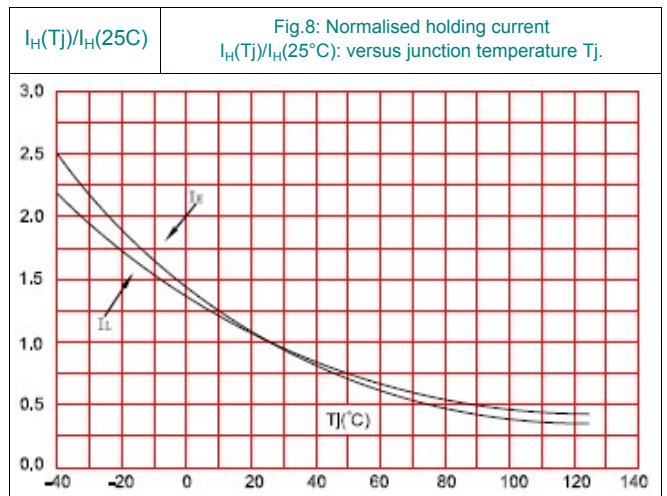
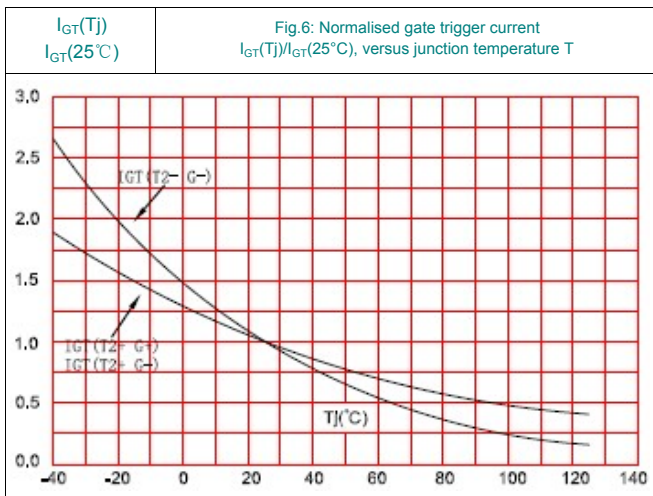
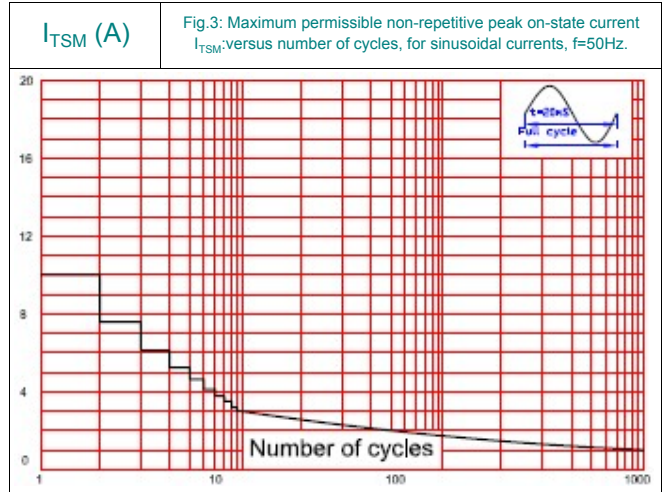
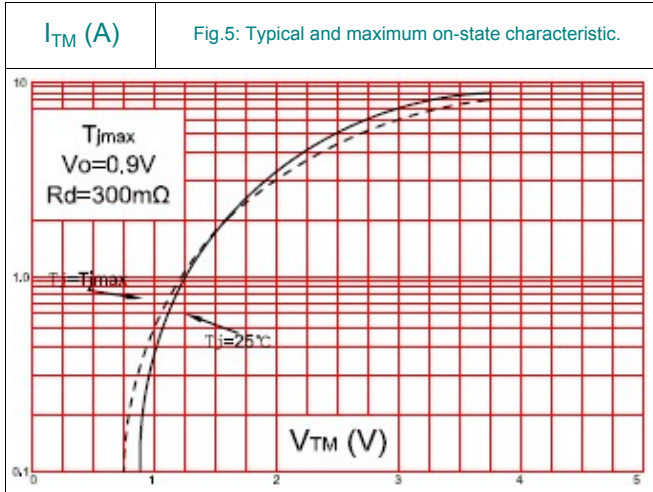
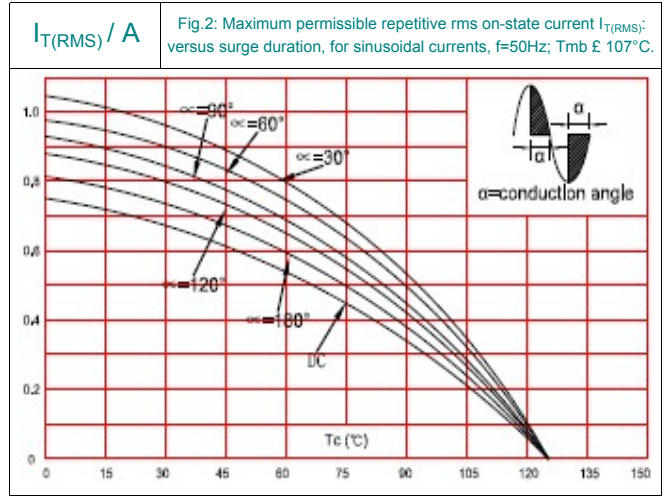
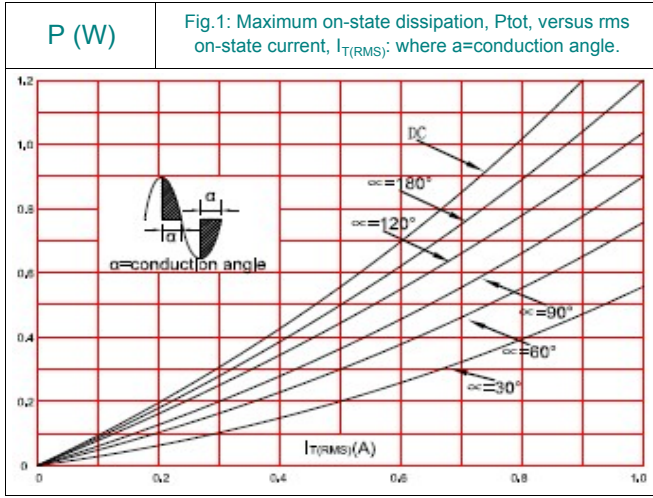
PACKAGE MECHANICAL DATA (mm): TO-92 Tape & Reel 成型腳位編帶封裝尺寸 (單位:毫米)



TO-92
Tape & Reel
TO-92
成型腳位
編帶封裝
封裝尺寸



SYMBOL 符號表示	Item 項目詳述	Inches (英寸單位)		Millimeter (毫米單位)	
		Min (最小)	Max (最大)	Min (最小)	Max (最大)
D	Tape Feedhole Diameter	0.1496	0.1653	3.8	4.2
D2	Component Lead Thickness Dimension	0.015	0.020	0.380	0.510
F1, F2	Component Lead Pitch	0.945	0.11	2.4	2.8
H	Bottom of Component to Seating Plane	0.059	0.156	1.5	4
H1	Feedhole Location	0.3346	0.3741	8.5	9.5
H2A	Deflection Left or Right	0	0.039	0	1
H2B	Deflection Front or Rear	0	0.051	0	1
H4	Feedhole to Bottom of Component	0.7086	0.768	18	19.5
H5	Feedhole to Seating Plane	0.61	0.649	15.5	16.5
L	Defective Unit Clipped Dimension	0.3346	0.433	8.5	11
L1	Lead Wire Enclosure	0.09842	---	2.5	---
P	Feedhole Pitch	0.4921	0.5079	12.5	12.9
P1	Feedhole Center to Center Lead	0.2342	0.2658	5.95	6.75
P2	First Lead Spacing Dimension	0.1397	0.1556	3.55	3.95
T	Adhesive Tape Thickness	0.06	0.08	0.15	0.200
T1	Overall Taped Package Thickness	---	0.0567	---	1.440
T2	Carrier Strip Thickness	0.014	0.027	0.350	0.650
W	Carrier Strip Width	0.6889	0.7481	17.50	19.00
W1	Adhesive Tape Width	0.2165	0.2841	5.50	6.30
W2	Adhesive Tape Position	0.0059	0.01968	0.15	0.50





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