



# 30F40UA3

## 主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	15×2 A
$V_{RRM}$	400 V
$T_j(max)$	150°C
$V_F(typ)$	1.3V
$t_{rr} (max)$	45ns

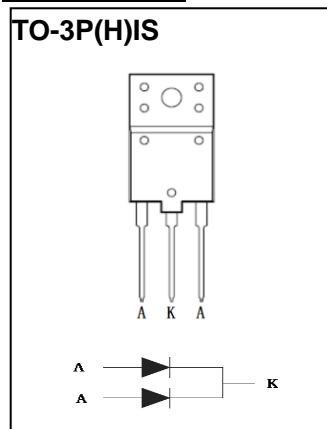
## 用途

- 开关电源
- 逆变 焊机

## APPLICATIONS

- Switch power supply
- Inversion Welder

## 封装 Package



## 产品特性

- 低功耗，高效率
- 低漏电
- 高可靠性
- 环保（RoHS）产品

## FEATURES

- Low power loss, high efficiency
- Low Leakage Current
- High reliability
- RoHS product

## 订货信息 ORDER MESSAGE

订货型号 Order codes		印记 Marking	封装 Package
有卤-条管 Halogen-Tube	无卤-条管 Halogen Free-Tube		
30F40UA3-GA-B	30F40UA3-GA-BR	30F40UA3	TO-3P(H)IS



**绝对最大额定值 ABSOLUTE RATINGS (Tc=25°C)**

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
最大反向重复峰值电压 Repetitive peak reverse voltage	V <sub>RRM</sub>	400	V
正向平均整流电流 Average forward current T <sub>C</sub> =100°C	I <sub>F(AV)</sub>	15*2	A
峰值单脉冲浪涌电流 Peak one Cycle Surge Forward Current(Non-Repetitive) t=10ms	I <sub>FSM</sub>	200	A
结温 Junction Temperature	T <sub>j</sub>	-55~+150	°C
储存温度 Storage temperature range	T <sub>STG</sub>	-55~+150	°C

**电特性 ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)**

项 目 Parameter	测试条件 Tests conditions	最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单 位 Unit
V <sub>RRM</sub>	I <sub>R</sub> =50μA	400			V
I <sub>R</sub>	T <sub>j</sub> =25°C			10	μA
	T <sub>j</sub> =125°C			300	μA
V <sub>F</sub>	T <sub>j</sub> =25°C		1.3	1.6	V
	T <sub>j</sub> =125°C			1.5	V
trr	I <sub>F</sub> =1A, V <sub>R</sub> =30V, di <sub>F</sub> /dt=-200A/μs			45	ns

**热特性 THERMAL CHARACTERISTICS**

项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal resistance from junction to case	R <sub>th(j-c)</sub>		1.5	°C/W





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

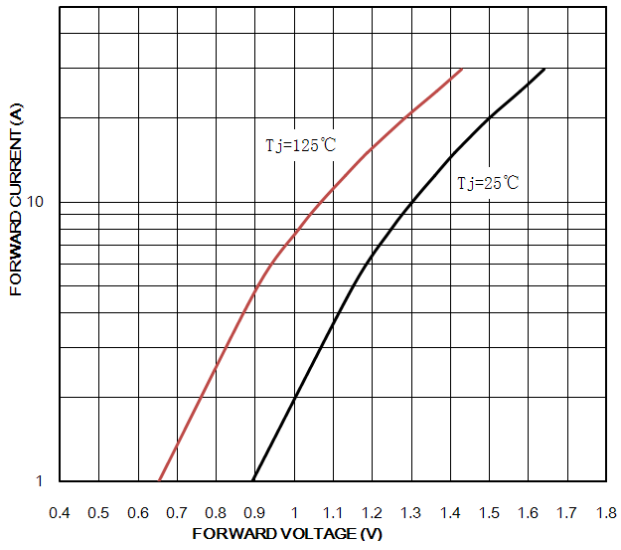
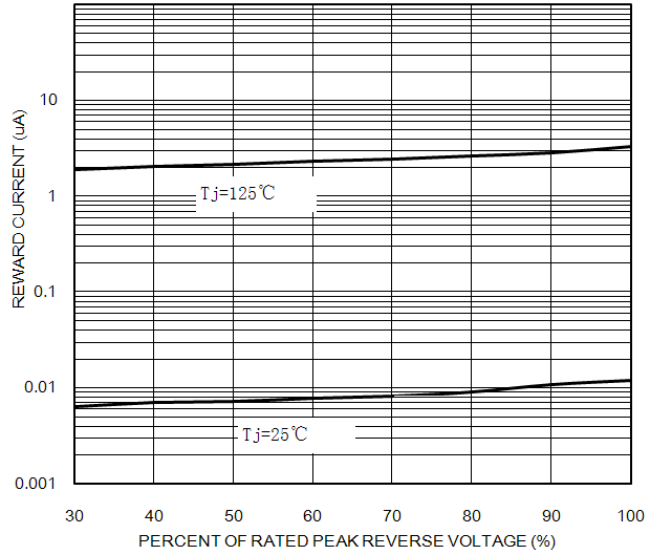


Fig.2 TYPICAL REVERSE CHARACTERISTICS

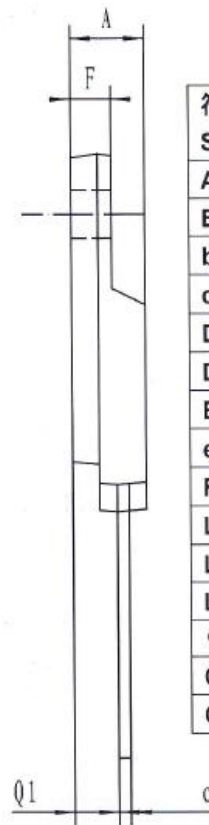
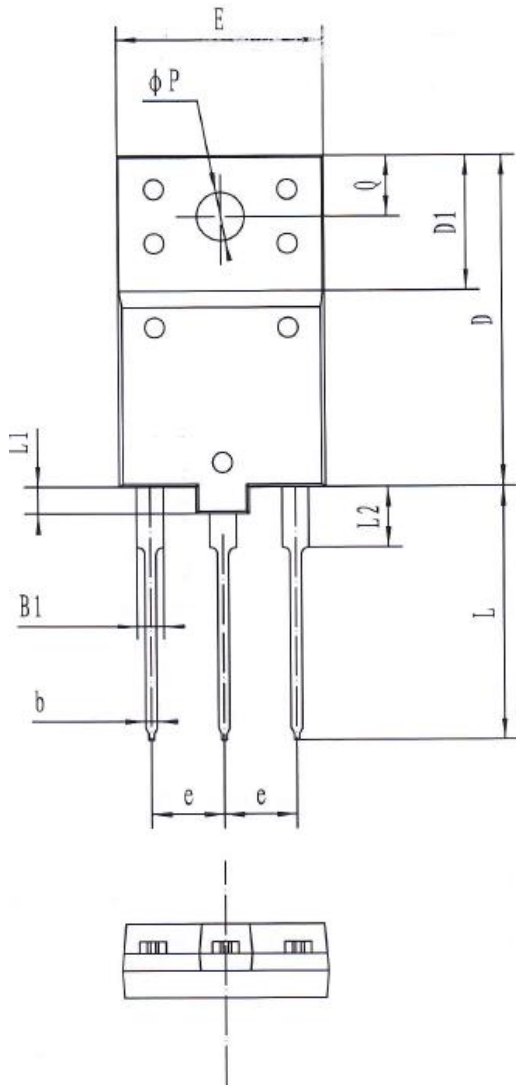




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TO-3P(H)IS

单位 Unit : mm



符号 Symbol	Min	Max
A	5.2	5.8
B1	1.8	2.2
b	0.75	1.05
c	0.8	1.1
D	24.0	25.0
D1	9.8	10.2
E	15.0	16.0
e	5.45 (typ)	
F	2.7	3.3
L	18.5	19.5
L1	1.8	2.2
L2	4.3	4.7
$\phi P$	3.4	3.8
Q	4.3	4.7
Q1	3.1	3.5



**注意事项**

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- 2.购买时请认清公司商标，如有疑问请与公司本部联系。
- 3.在电路设计时请不要超过器件的绝对最大额定值，否则会影响整机的可靠性。
- 4.本说明书如有版本变更不另外告知

**NOTES**

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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
4. Jilin Sino-microelectronics co, Ltd reserves the right to make changes in this specification sheet and is subject to change without prior notice.

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