



3DD4617H (MP、R、Z、U、I)

主要参数 MAIN CHARACTERISTICS

I_C	4.0A
V_{CEO}	450V
$P_C(TO-126P/251)$	30W
$P_C(DPAK/252)$	40W
$P_C(TO-220)$	75W

用途

- 充电器
- 电子镇流器
- 高频开关电源
- 高频功率变换
- 一般功率放大电路

产品特性

- 高耐压
- 高电流容量
- 高开关速度
- 高可靠性
- 环保 (RoHS) 产品

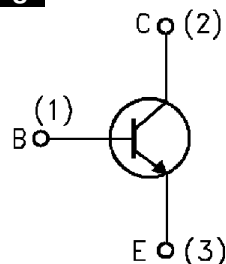
APPLICATIONS

- Battery charger
- Electronic ballasts
- High frequency switching power supply
- High frequency power transform
- Commonly power amplifier circuit

FEATURES

- High breakdown voltage
- High current capability
- High switching speed
- High reliability
- RoHS product

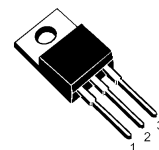
封装 Package



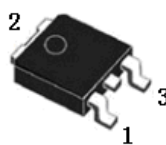
TO-126P



TO-220



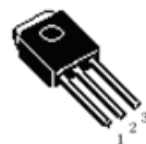
DPAK



TO-252



TO-251



订货信息 ORDER MESSAGE

订货型号 Order codes	印 记 Marking	无卤素 Halogen Free	封 装 Package	包 装 Packaging
3DD4617HMP-O-MP-N-C	4617HMP	否 NO	TO-126P	袋装 Bag
3DD4617HMP-O-MP-N-B	4617HMP	否 NO	TO-126P	条管 Tube
3DD4617HZ-O-Z-N-C	4617HZ	否 NO	TO-220	袋装 Bag
3DD4617HZ-O-Z-N-B	4617HZ	否 NO	TO-220	条管 Tube
3DD4617HR-O-R-N-B	4617HR	否 NO	DPAK	条管 Tube
3DD4617HR-O-R-N-A	4617HR	否 NO	DPAK	编带 Brede
3DD4617HI-O-I-N-C	4617HI	否 NO	TO-251	袋装 Bag
3DD4617HU-O-U-N-C	4617HU	否 NO	TO-252	袋装 Bag
3DD4617HU-O-U-N-A	4617HU	否 NO	TO-252	编带 Brede





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绝对最大额定值 ABSOLUTE RATINGS ($T_c=25^{\circ}\text{C}$)

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
集电极—发射极直流电压 Collector- Emitter Voltage ($V_{BE}=0$)	V_{CES}	800	V
集电极—发射极直流电压 Collector- Emitter Voltage ($I_B=0$)	V_{CEO}	450	V
发射极—基极直流电压 Emitter-Base Voltage	V_{EBO}	9	V
最大集电极直流电流 Collector Current (DC)	I_C	4.0	A
最大集电极脉冲电流 Collector Current (pulse)	I_{CP}	8.0	A
最大集电极耗散功率 Total Dissipation (TO-126P/251)	P_C	30	W
最大集电极耗散功率 Total Dissipation (TO-252/DPAK)	P_C	40	W
最大集电极耗散功率 Total Dissipation (TO-220)	P_C	75	W
最高结温 Junction Temperature	T_j	150	$^{\circ}\text{C}$
贮存温度 Storage Temperature	T_{stg}	-55~+150	$^{\circ}\text{C}$

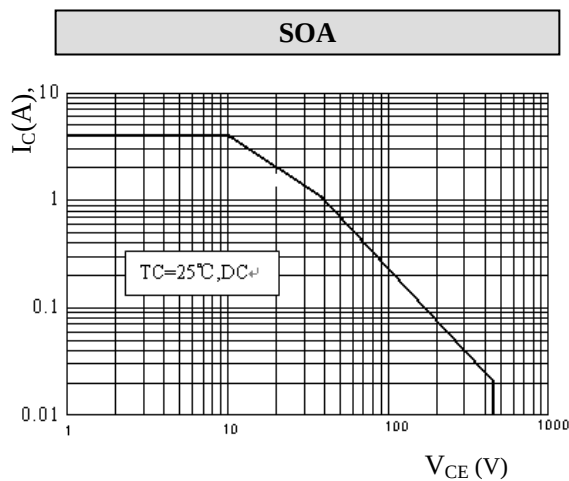
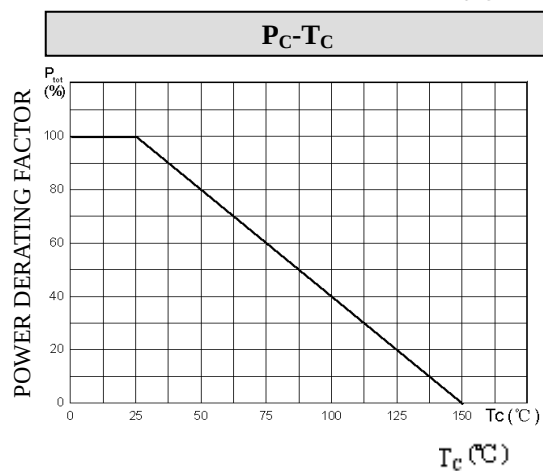
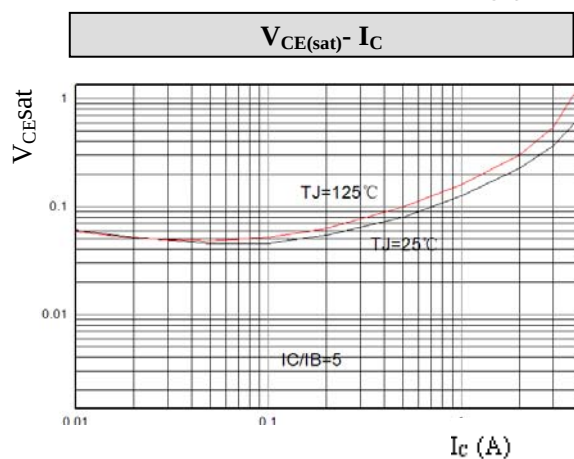
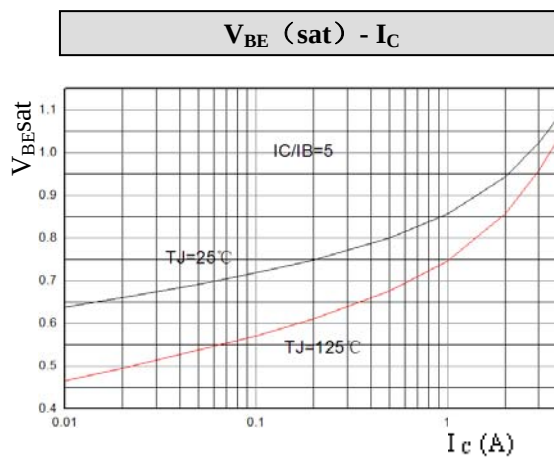
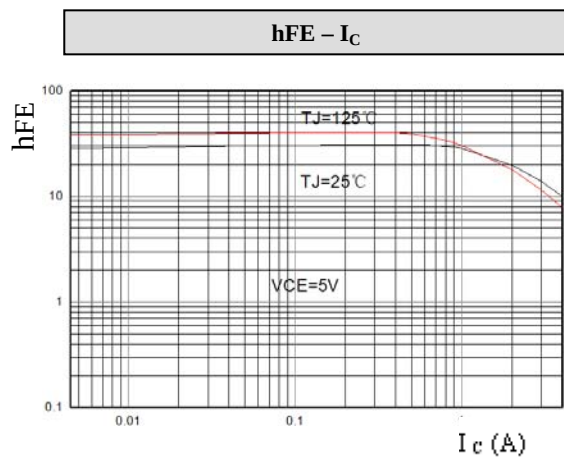
电特性 ELECTRICAL CHARACTERISTIC

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
$V_{(BR)CEO}$	$I_C=5\text{mA}, I_B=0$	450	500	-	V
$V_{(BR)CBO}$	$I_C=1\text{mA}, I_E=0$	800	900	-	V
$V_{(BR)EBO}$	$I_E=1\text{mA}, I_C=0$	9	14	-	V
I_{CBO}	$V_{CB}=800\text{V}, I_E=0$	-	-	0.1	mA
I_{CEO}	$V_{CE}=450\text{V}, I_B=0$	-	-	1	mA
I_{EBO}	$V_{EB}=9\text{V}, I_C=0$	-	-	0.1	mA
hFE	$V_{CE}=5\text{V}, I_C=500\text{mA}$	20	30	40	-
	$V_{CE}=5\text{V}, I_C=4.0\text{A}$	5.0	9.5	-	-
$V_{CE(sat)}$	$I_C=4\text{A}, I_B=0.8\text{A}$	-	0.6	1.3	V
$V_{BE(sat)}$	$I_C=4\text{A}, I_B=0.8\text{A}$	-	1.1	1.5	V
tf	$V_{CC}=24\text{V}, I_C=2\text{A}, I_{B1}=-I_{B2}=0.4\text{A}$	-	-	0.7	μS
fT	$V_{CE}=10\text{V}, I_C=0.5\text{A}$	5	-	-	MHz

热特性 THERMAL CHARACTERISTIC

项 目 Parameter	符 号 Symbol	最小值 min	最大值 max	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction Case TO-126P/251	$R_{th(j-c)}$	-	4.167	$^{\circ}\text{C/W}$
结到管壳的热阻 Thermal Resistance Junction Case DPAK/252	$R_{th(j-c)}$	-	3.125	$^{\circ}\text{C/W}$
结到管壳的热阻 Thermal Resistance Junction Case TO-220	$R_{th(j-c)}$	-	1.670	$^{\circ}\text{C/W}$





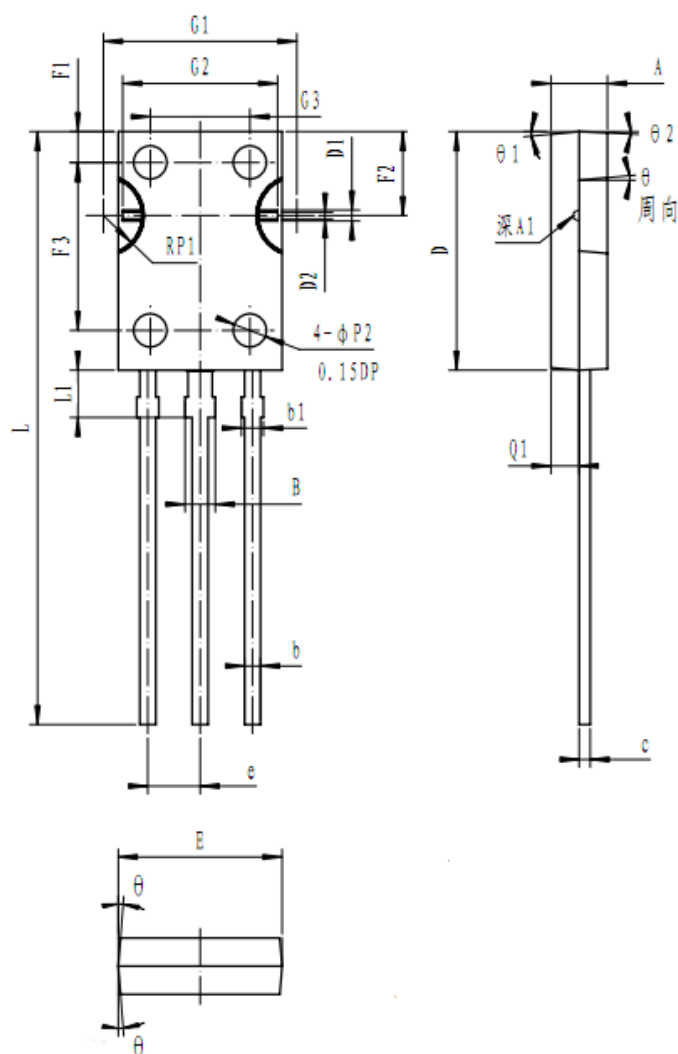


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外形尺寸 PACKAGE MECHANICAL DATA

TO-126P

单位 Unit : mm



SYMBOL	MM		
	MIN	NOM	MAX
*A	2.45	2.55	C
A1	0.20	0.20	0.25
*b	0.71	0.76	0.81
b1	0.72	0.82	0.92
*B	1.27	1.37	1.45
*c	0.45	0.50	0.55
*D	10.70	10.80	10.90
D1		0.50	
D2		0.30	
*E	7.30	7.40	7.50
F1	1.30	1.40	1.50
F2	3.70	3.80	3.90
F3	7.50	7.60	7.70
G1	8.64	8.74	8.84
G2	6.90	7.00	7.10
G3	4.40	4.50	4.60
*e	2.24	2.29	2.34
*L	26.90	27.00	27.10
L1	2.10	2.20	2.30
Q1	1.17	1.27	1.37
theta		3°	
theta1		2°	
theta2		1°	
RP1		1.70	
phi P2	1.45	1.50	1.55

带*为检验尺寸



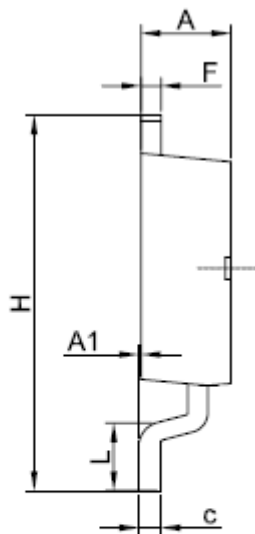
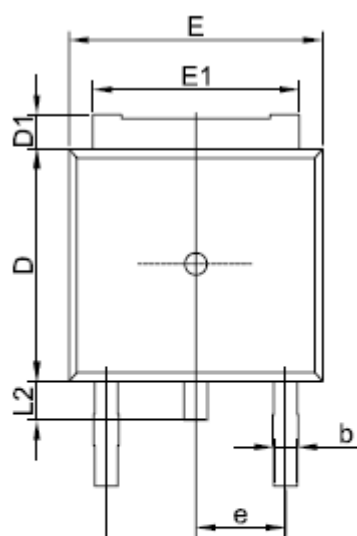


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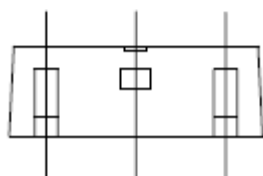
外形尺寸 PACKAGE MECHANICAL DATA

DPAK

单位 Unit : mm



符号 symbol	MIN	MAX
A	2.2	2.4
A1	0.0	0.2
b	0.7	0.9
c	0.45	0.55
D	6.0	6.3
D1	0.8	1.2
E	6.5	6.8
E1	5.2	5.5
e	2.28TYP	
F	0.45	0.55
H	9.65	10.45
L	1.0	1.3
L2	0.7	1.3



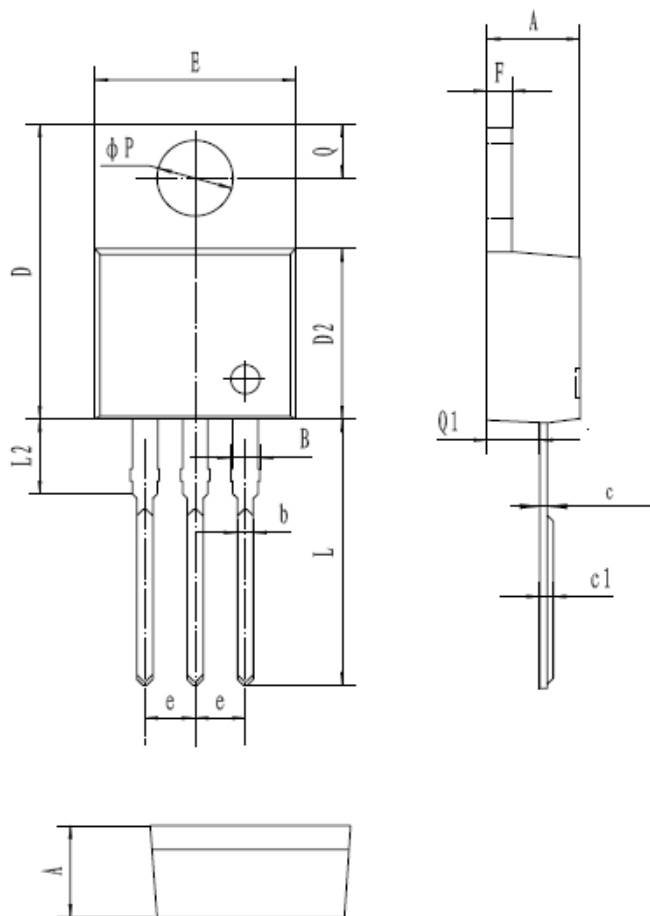


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外形尺寸 PACKAGE MECHANICAL DATA

TO-220

单位 Unit : mm



符号 symbol	MIN	MAX
A	4.40	4.80
B	1.10	1.40
b	0.70	0.95
c	0.28	0.48
c1	0.32	0.52
D	14.45	16.00
D2	8.20	9.20
E	9.60	10.40
e	2.39	2.69
F	1.20	1.35
L	13.05	14.05
L2	3.70	3.90
Q	2.40	3.00
Q1	2.20	2.90
P	3.50	4.00



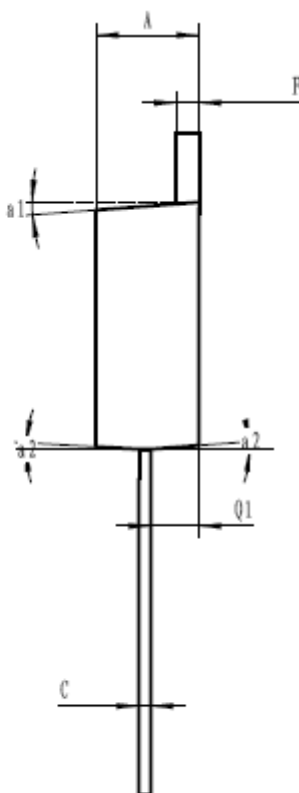
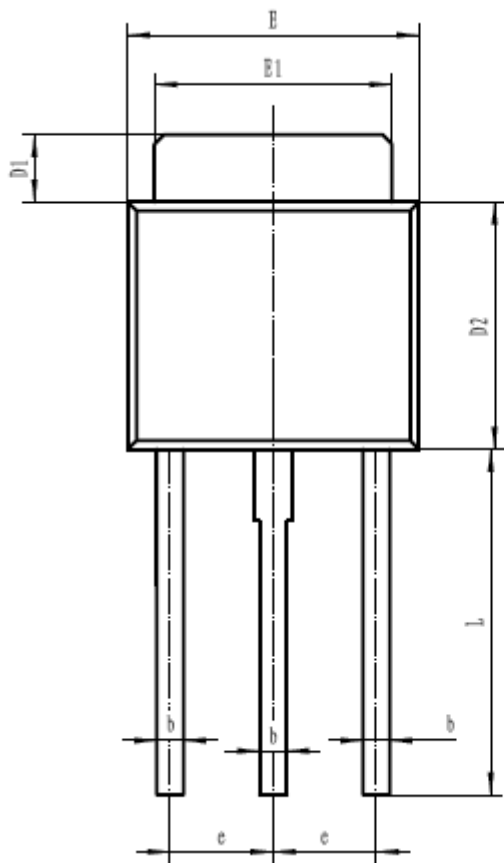


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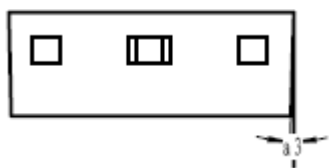
外形尺寸 PACKAGE MECHANICAL DATA

TO-251

单位 Unit : mm



Symbol	Dimensions In Millimeters		
	min	type	max
A	2.2	2.30	2.4
b	0.55	0.60	0.65
b1	0.7	0.80	0.9
c	0.45	0.50	0.55
D1	1.4	1.50	1.6
D2	5.4	5.50	5.6
E	6.4	6.50	6.6
E1	5.2	5.30	5.4
e	2.25	2.30	2.35
F	0.45	0.50	0.55
L	7.6	7.70	7.8
Q1	1.15	1.20	1.25
a1	4°	5°	6°
a2	4°	5°	6°
a3	4°	5°	6°



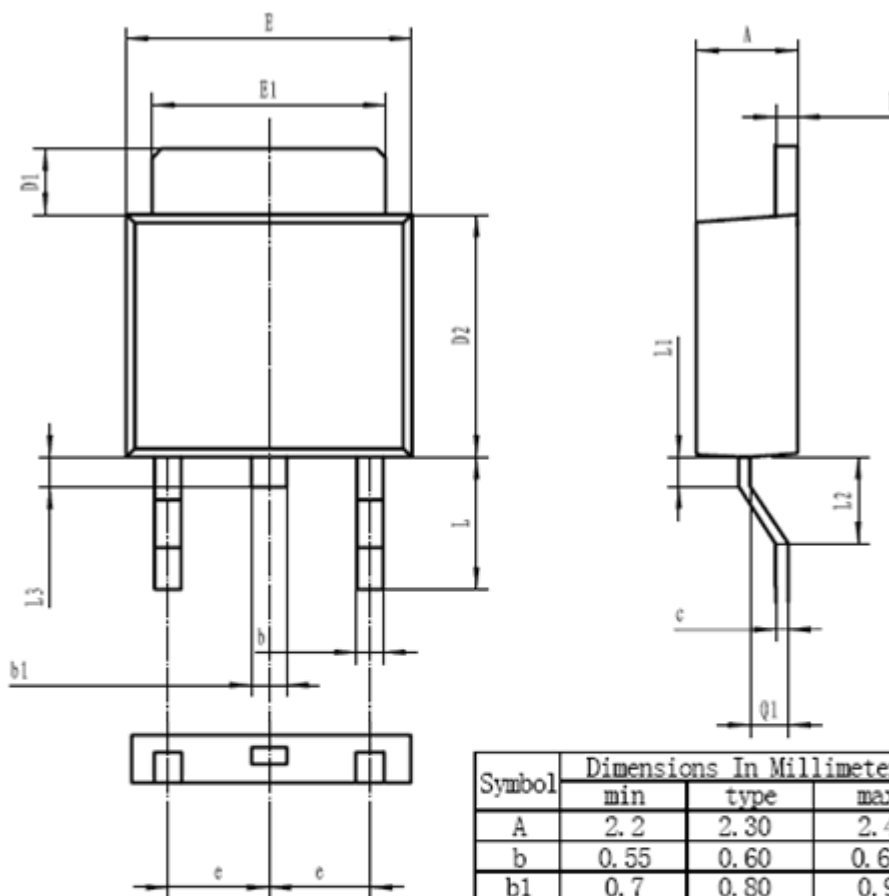


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外形尺寸 PACKAGE MECHANICAL DATA

TO-252

单位 Unit : mm



Symbol	Dimensions In Millimeters		
	min	type	max
A	2.2	2.30	2.4
b	0.55	0.60	0.65
b1	0.7	0.80	0.9
c	0.45	0.50	0.55
D1	1.4	1.50	1.6
D2	5.4	5.50	5.6
E	6.4	6.50	6.6
E1	5.2	5.30	5.4
e	2.25	2.30	2.35
F	0.45	0.50	0.55
L	2.6	2.70	2.8
L1	0.9	1.00	1.1
L2	1.7	1.8	1.9
L3	0.7	0.8	0.9
Q1	1.15	1.2	1.25



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4. 本说明书如有版本变更不另外告知

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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
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附录 (Appendix)：修订记录 (Revision History)

日期 Date	旧版本 Last Rev.	新版本 New Rev.	修订内容 Description of Changes
2013-7-24		201307A	新版
2013-12-20	201307A	201312B	添加新的封装外形
2014-8-19	201312B	201408C	增加 TO-251、TO-252 封装外形

