



Micro Commercial Components



Micro Commercial Components
130 W Cochran St, Unit B
Simi Valley, CA 93065
Tel:818-701-4933

MMDT5551

Plastic-Encapsulate Transistors

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Capable of 200mWatts of Power Dissipation
- Ideal for Medium Power Amplification and Switching
- Operating and Storage Junction Temperatures: -55°C to 150°C
- Marking:K4N

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=1\text{ mAdc}$, $I_B=0$)	160		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=100\mu\text{A}$, $I_E=0$)	180		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=10\mu\text{Adc}$, $I_C=0$)	6.0		Vdc
I_{EBO}	Emitter Cutoff Current ($V_{EB}=4\text{Vdc}$, $I_C=0$)		50	nAdc
I_{CBO}	Collect Cutoff Current ($V_{CB}=120\text{Vdc}$, $I_E=0$)		50	nAdc
I_C	Collector Current-Continuous		200	mA
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient		625	K/W

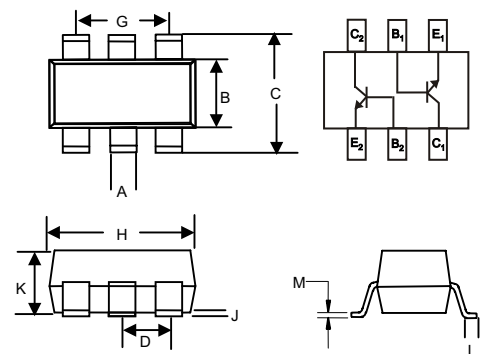
ON CHARACTERISTICS

h_{FE}	DC Current Gain ($I_C=1\text{mAdc}$, $V_{CE}=5.0\text{Vdc}$) ($I_C=10\text{mAdc}$, $V_{CE}=5.0\text{Vdc}$)	80 100	300	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=10\text{mAdc}$, $I_B=1.0\text{mAdc}$)		0.15	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=10\text{mAdc}$, $I_B=1.0\text{mAdc}$)		1.0	Vdc

SMALL-SIGNAL CHARACTERISTICS

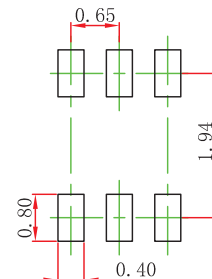
f_T	Current Gain-Bandwidth Product ($I_C=10\text{mAdc}$, $V_{CE}=20\text{Vdc}$, $f=100\text{MHz}$)	100	300	MHz
C_{obo}	Output Capacitance ($V_{CB}=5.0\text{Vdec}$, $I_E=0$, $f=1.0\text{MHz}$)		6.0	pF
Noise figure	$R_g=1\text{kohm}$ $V_{CE}=5.0\text{Vdec}$, $I_C=200\mu\text{A}$, $f=1.0\text{KHz}$		8.0	NF

SOT-363

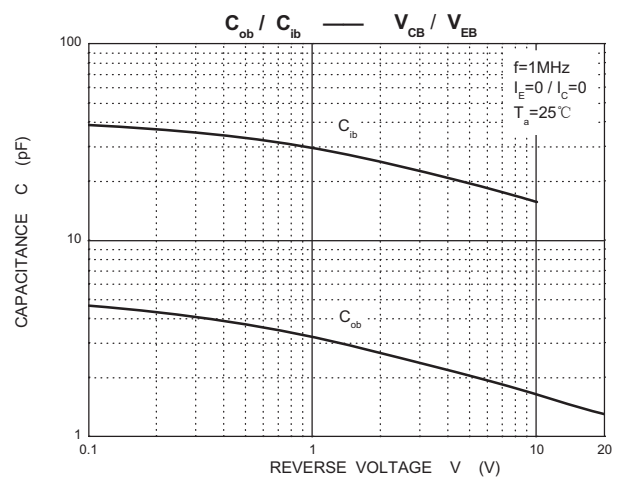
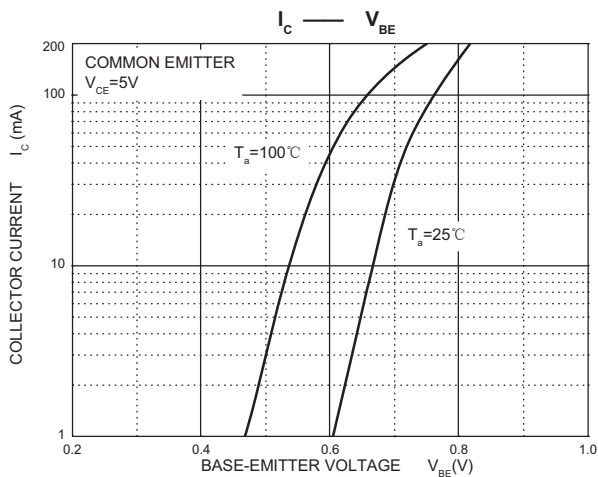
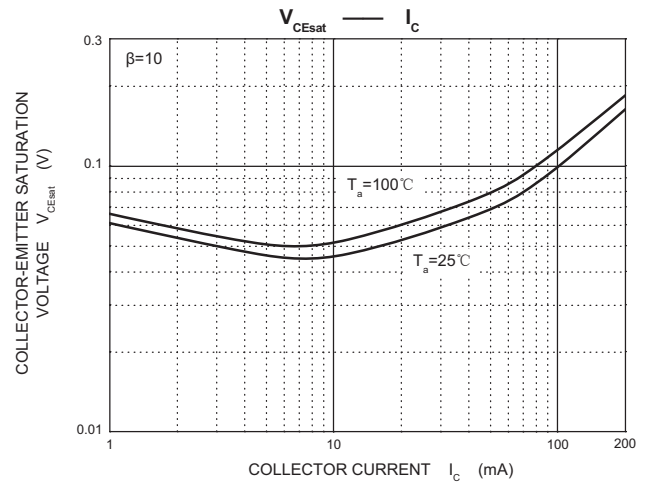
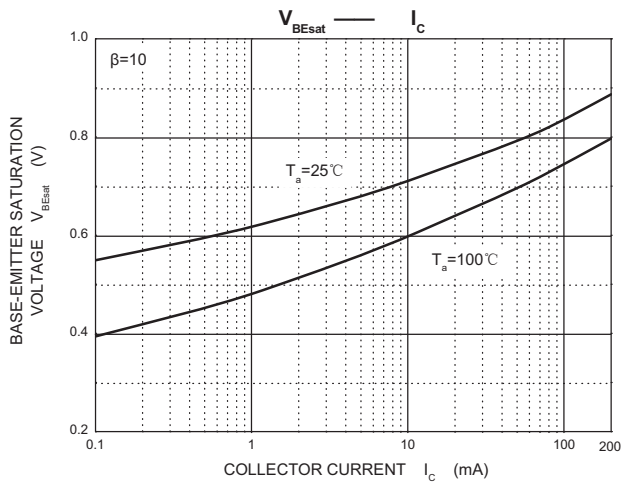
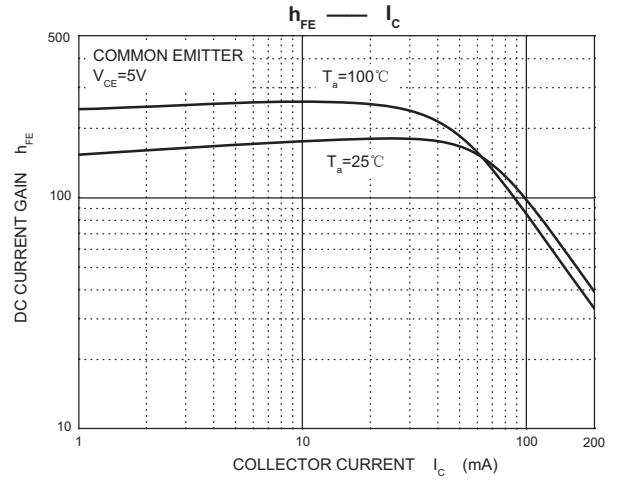
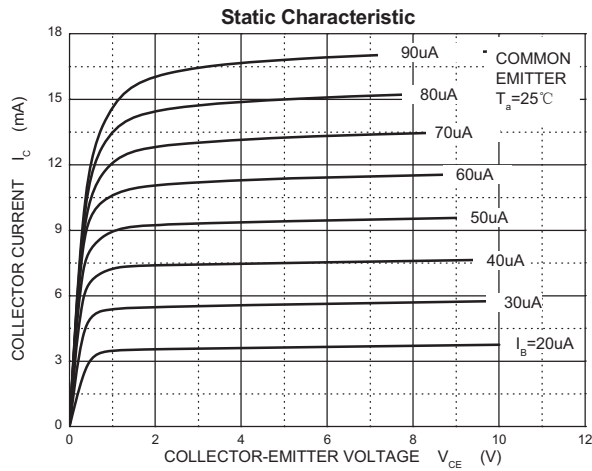


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.006	0.014	0.15	0.35	
B	0.045	0.053	1.15	1.35	
C	0.079	0.096	2.00	2.45	
D	0.026 Nominal		0.65 Nominal		
G	0.047	0.055	1.20	1.40	
H	0.071	0.087	1.80	2.20	
J	---	0.004	---	0.10	
K	0.035	0.043	0.90	1.10	
L	0.010	0.018	0.26	0.46	
M	0.003	0.006	0.08	0.15	

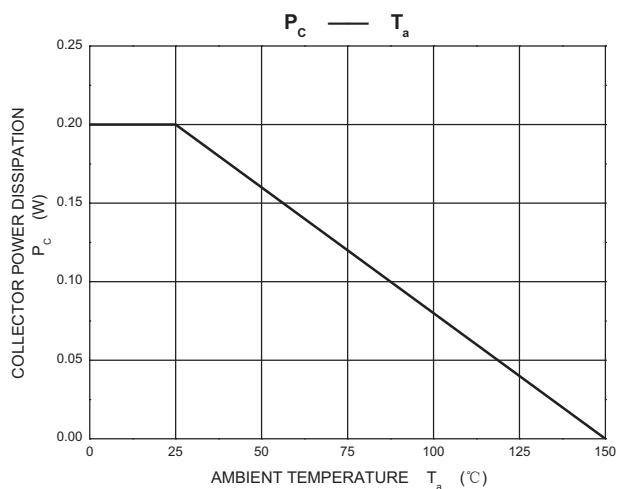
SUGGESTED SOLDER PAD LAYOUT



Typical Characteristics



M·C·C·
Micro Commercial Components



Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9