



Micro Commercial Components



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Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epitaxial Planar Die Construction
- Ideal for Low Power Amplification and Switching
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: K4M/K2T

Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Rating	Rating(PNP)	Unit
V_{CEO}	Collector-Emitter Voltage	40	V
V_{CBO}	Collector-Base Voltage	40	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	0.6	A
P_C	Collector Dissipation	0.2	W
T_J	Operating Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

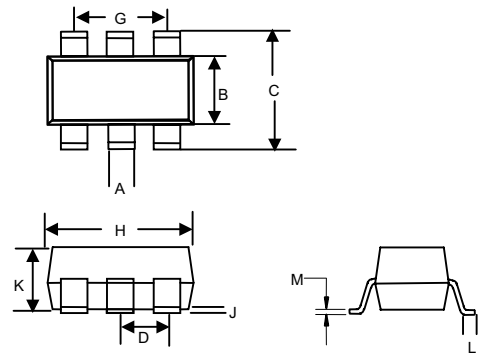
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units	
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=-1mA$, $I_B=0$)	40	---	Vdc	
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=100\mu A$, $I_E=0$)	40	---	Vdc	
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage ($I_E=100\mu A$, $I_C=0$)	5	---	Vdc	
I_{CBO}	Collector Cutoff Current ($V_{CB}=50Vdc, I_E=0$)	---	0.1	μA dc	
I_{EBO}	Emitter Cutoff Current ($V_{EB}=-5Vdc, I_C=0$)	---	0.1	μA dc	
h_{FE}	DC Current Gain ($I_C=0.1mA$, $V_{CE}=1Vdc$)	30	---	---	
	($I_C=1mA$, $V_{CE}=1Vdc$)	60	---		
	($I_C=10mA$, $V_{CE}=1Vdc$)	100	----		
	($I_C=150mA$, $V_{CE}=2Vdc$)	100	300		
	($I_C=500mA$, $V_{CE}=2Vdc$)	20	---		
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=150mA$, $I_B=15mA$)	---	0.4	Vdc	
	($I_C=500mA$, $I_B=50mA$)	---	0.75		
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=150mA$, $I_B=15mA$)	0.75	0.95	Vdc	
	($I_C=500mA$, $I_B=50mA$)	---	1.3		
f_T	Current Gain-Bandwidth Product ($V_{CE}=10.0Vdc, I_C=20mA$, $f=100MHz$)	200	---	MHz	
C_{ob}	Output Capacitance ($V_{CB}=10Vdc, f=1.0MHz, I_E=0$)	---	8.5	pF	
t_d	Delay Time	$V_{CC}=30V, I_C=150mA,$ $V_{BE}=2.00V, I_{B1}=15.00mA$	---	15	ns
t_r	Rise Time		---	20	ns
t_s	Storage Time	$V_{CC}=30V, I_C=150mA,$ $I_{B1}=I_{B2}=15mA$	---	225	ns
t_f	Fall Time		---	30	ns

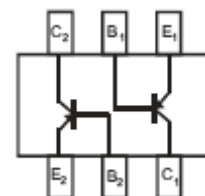
MMDT4403

PNP Plastic-Encapsulate Transistors

SOT-363



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.006	.014	0.15	0.35	
B	.045	.053	1.15	1.35	
C	.085	.096	2.15	2.45	
D	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
H	.071	.087	1.80	2.20	
J	---	.004	---	0.10	
K	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
M	.003	.006	0.08	0.15	



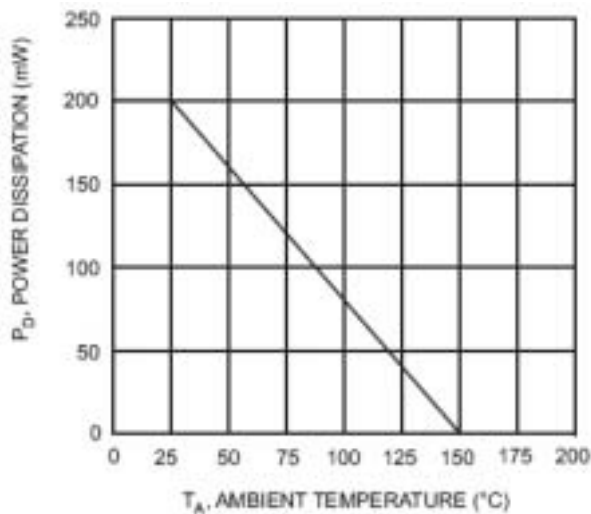


Fig. 1, Max Power Dissipation vs Ambient Temperature

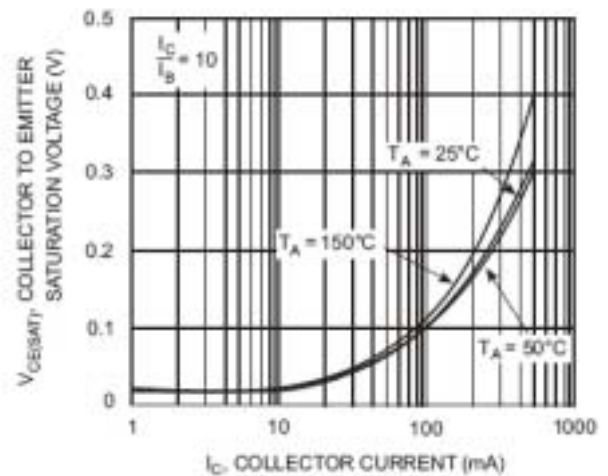


Fig. 2 Collector Emitter Saturation Voltage vs. Collector Current

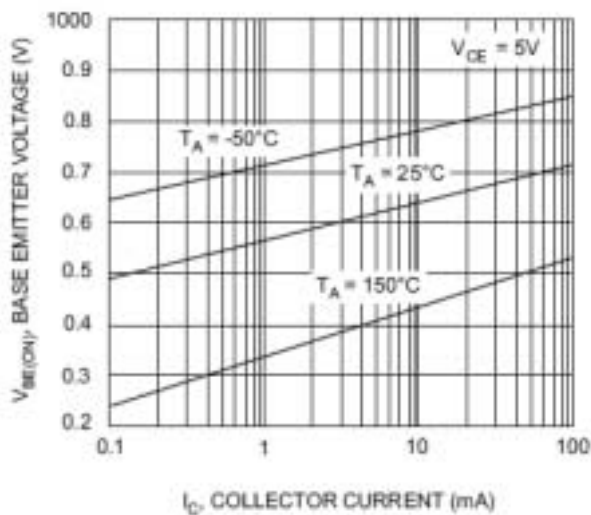


Fig. 3 Base-Emitter Voltage vs. Collector Current

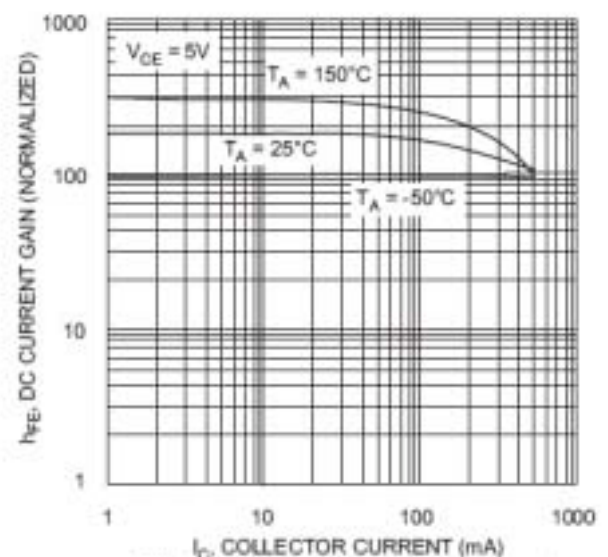


Fig. 4 DC Current Gain vs. Collector Current

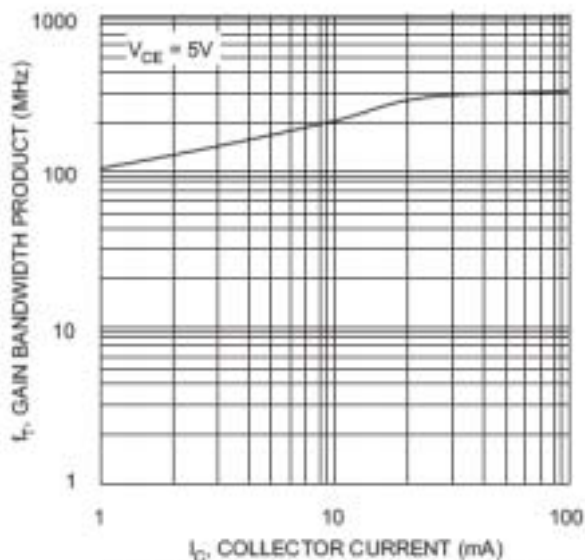


Fig. 5 Gain Bandwidth Product vs. Collector Current

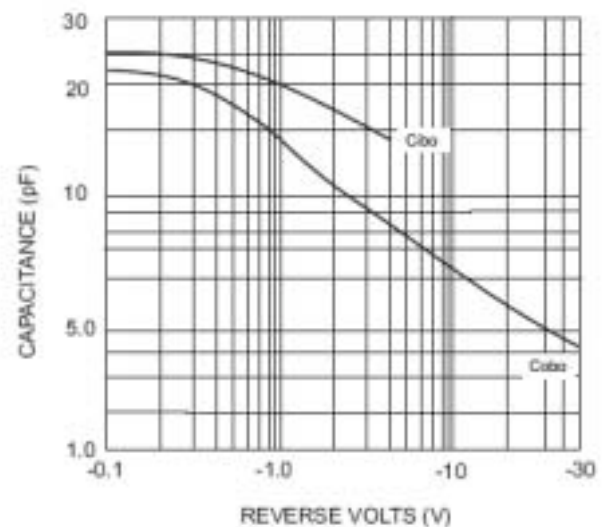


Fig. 6 Typical Capacitance

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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<http://moschip.ru/get-element>

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

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

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