

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



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MMDT4403

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
- Moisure Sensitivity Level 1
- Marking: K4M/K2T

Maximum Ratings @ 25°C Unless Otherwise Specified

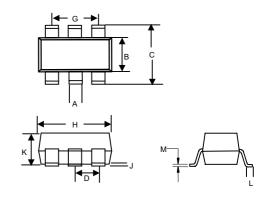
Symbol	Rating	Rating(PNP)	Unit
V_{CEO}	Collector-Emitter Voltage	40	V
V_{CBO}	Collector-Base Voltage	40	V
V_{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	0.6	Α
Pc	Collector Dissipation	0.2	W
T_J	Operating Junction Temperature	-55 to +150	$^{\circ}\mathbb{C}$
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

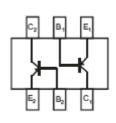
Symbol	Parameter		Min	Max	Units
$V_{(BR)CEO}$	Collector-Emitte (I _C =-1mAdc, I _B	40		Vdc	
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C =100uAdc, I _E =0)		40		Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I _E =100uAdc, I _C =0)		5		Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =50Vdc,I _E =0)			0.1	uAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =-5Vdc,I _C =0)			0.1	uAdc
h _{FE}	DC Current Gain		30 60 100 100 20	 300 	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =150mAdc, I _B =15mAdc) (I _C =500mAdc, I _B =50mAdc)			0.4 0.75	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage (I _C =150mAdc, I _B =15mAdc) (I _C =500mAdc, I _B =50mAdc)		0.75 	0.95 1.3	Vdc
f _T	Current Gain-Bandwidth Product (V _{CE} =10.0Vdc, I _C =20mAdc, f=100MHz)		200		MHz
C _{ob}	Output Capacitance (V _{CB} =10Vdc, f=1.0MHz, I _E =0)			8.5	pF
t_d	Delay Time	$V_{CC}=30V,I_{C}=150mA,$		15	ns
t _r	Rise Time	$V_{BE}=2.00V$, $I_{B1}=15.00mA$		20	ns
ts	Storage Time	V _{CC} =30V, I _C =150mA,		225	ns
t _f	Fall Time	$I_{B1}=I_{B2}=15mA$		30	ns

PNP Plastic-Encapsulate **Transistors**



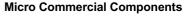


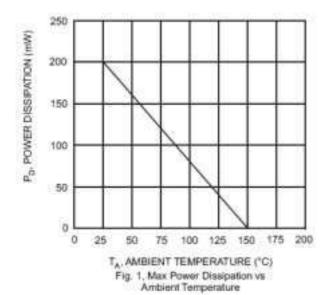
DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.006	.014	0.15	0.35		
В	.045	.053	1.15	1.35		
С	.085	.096	2.15	2.45		
D	.02	6	0.65N	ominal		
G	.047	.055	1.20	1.40		
Н	.071	.087	1.80	2.20		
J		.004		0.10		
K	.035	.043	0.90	1.10		
L	.010	.018	0.26	0.46		
M	.003	.006	0.08	0.15		

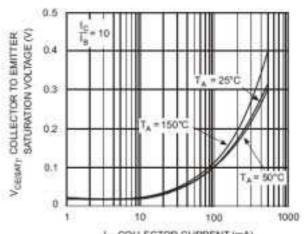


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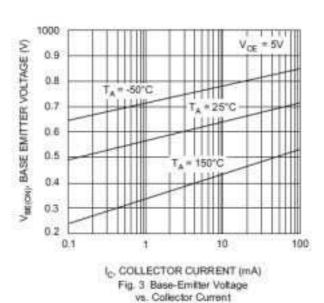
$\cdot M \cdot C \cdot C \cdot$

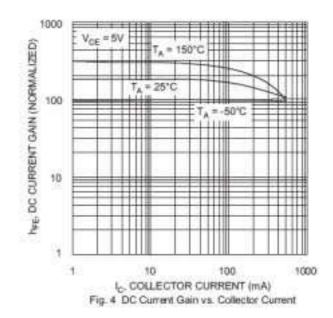


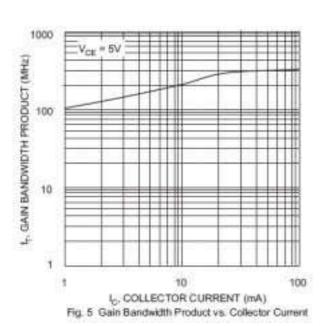


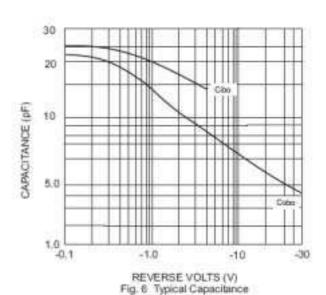


I_C COLLECTOR CURRENT (mA) Fig. 2 Collector Emitter Saturation Voltage vs. Collector Current











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Ordering Information:

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

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

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