

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MMDT3906

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Ideal for Low Power Amplification and Switching
- Ultra-small Surface Mount Package
- **Epitaxial Planar Die Construction**
- Epoxy meets UL 94 V-0 flammability rating

Moisure Sensitivity Level 1
 Marking:K3N
 Maximum Ratings @ 25°C Unless Otherwise Specified

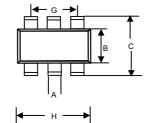
Symbol	Rating	Rating(PNP)	Unit
V _{CEO}	Collector-Emitter Voltage	-40	V
V_{CBO}	Collector-Base Voltage	-40	V
V_{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-0.2	Α
Pc	Collector Dissipation	0.2	W
T_J	Operating Junction Temperature	-55 to +150	$^{\circ}\mathbb{C}$
T _{STG}	Storage Temperature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

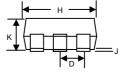
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Min	Max	Units
$V_{(BR)CEO}$		Collector-Emitter Breakdown Voltage (I _C =-1mAdc, I _B =0)			Vdc
V _{(BR)CBO}	Collector-Base E (I _C =-10uAdc, I _E	-40		Vdc	
$V_{(BR)EBO}$	Collector-Emitte (I _E =-10uAdc, I _C	-5		Vdc	
I _{CBO}	Collector Cutoff (V _{CB} =-30Vdc,I		-50	nAdc	
I _{EBO}	Emitter Cutoff C (V _{EB} =-5Vdc,I _C :		-50	nAdc	
h _{FE}	DC Current Gair (I_C =-0.1mAdc, (I_C =-1mAdc, V (I_C =-10mAdc, (I_C =-50mAdc,	40 70 100 60	 300 		
	(I _C =-100mAdc	, V _{CE} =-1Vdc)	30		
$V_{\text{CE(sat)}}$	Collector-Emitte (I _C =-10mAdc, I (I _C =-50mAdc,	 	-0.25 -0.4	Vdc	
$V_{BE(sat)}$	Base-Emitter Sa (I _C =-10mAdc, (I _C =-50mAdc,	-0.65 	-0.85 -0.95	Vdc	
f⊤	Current Gain-Ba (V _{CE} =-20Vdc, I	250		MHz	
C_{ob}	Output Capacita (V _{CB} =-5Vdc, f=		4.5	pF	
NF	Noise Figure $(V_{CE}=-5V,I_{C}=-0.1\text{mA}, f=1KHz, R_{S}=1k\Omega)$			4	dB
t _d	Delay Time	V _{CC} =-3V,I _C =-10mA,		35	ns
t _r	Rise Time	V_{BE} =-0.5V, I_{B1} =- I_{B2} =-1mA		35	ns
t _S	Storage Time	V _{CC} =-3V, I _C =-10mA,		225	ns
t _f	Fall Time	I _{B1} =-I _{B2} =-1mA		75	ns

PNP Small Signal Surface Mount Transistors

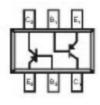








	DIMENSIONS					
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.006	.014	0.15	0.35		
В	.045	.053	1.15	1.35		
С	.085	.096	2.15	2.45		
D	.02	6	0.65N	ominal		
G	.047	.055	1.20	1.40		
Н	.071	.087	1.80	2.20		
J		.004		0.10		
K	.035	.043	0.90	1.10		
L	.010	.018	0.26	0.46		
M	.003	.006	0.08	0.15		





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Ordering Information:

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

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Micro Commercial Components (MCC):

MMDT3906-TP MMDT3906-T