

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MMDT3906

Features

- Ideal for Low Power Amplification and Switching
- Ultra-small Surface Mount Package
- Epitaxial Planar Die Construction
 Case Material: Molded Plastic. UL Flammability
 Classification Rating 94V-0

• Marking:K3N
Maximum Ratings @ 25°C Unless Otherwise Specified

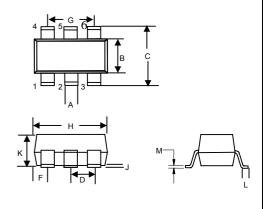
Symbol	Rating	Rating(PNP)	Unit
V_{CEO}	Collector-Emitter Voltage	-40	V
V_{CBO}	Collector-Base Voltage	-40	V
V_{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-0.2	Α
Pc	Collector Dissipation	0.2	W
TJ	Operating Junction Temperature	-55 to +150	$^{\circ}\mathbb{C}$
T _{STG}	Storage Temperature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

Electrical Characteristics @ 25°C Unless Otherwise Specified

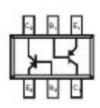
Symbol		Min	Max	Units	
$V_{(BR)CEO}$	Collector-Emitter (I _C =-1mAdc, I _B :	-40		Vdc	
$V_{(BR)CBO}$	Collector-Base E (I _C =-10uAdc, I _E	-40		Vdc	
$V_{(BR)EBO}$	Collector-Emitter (I _E =-10uAdc, I _C	-5		Vdc	
I _{CBO}	Collector Cutoff (V _{CB} =-30Vdc,I		-50	nAdc	
I _{EBO}	Emitter Cutoff Co (V _{EB} =-5Vdc,I _C =		-50	nAdc	
h _{FE}	DC Current Gair (I _C =-0.1mAdc, (I _C =-1mAdc, V (I _C =-10mAdc, (I _C =-50mAdc, (I _C =-100mAdc	40 70 100 60 30	300 		
V _{CE(sat)}	Collector-Emitter (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 Capacitance (V _{CB} =-5Vdc, f=1.0MHz, I _E =0)			4.5	pF
NF	Noise Figure (V_{CE} =-5 V , I_{C} =-0.1 m A, f=1 K Hz, R_{S} =1 k Ω)			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

SOT-363



DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.004	.012	0.10	0.30			
В	.045	.053	1.15	1.35			
С	.079	.087	2.00	2.20			
D	.026		0.65Nominal				
F	.012	.016	0.30	0.40			
Н	.071	.087	1.80	2.20			
J		.004		0.10			
K	.035	.039	0.90	1.00			
L	.010	.016	0.25	0.40			
M	.004	.016	0.10	0.25			





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