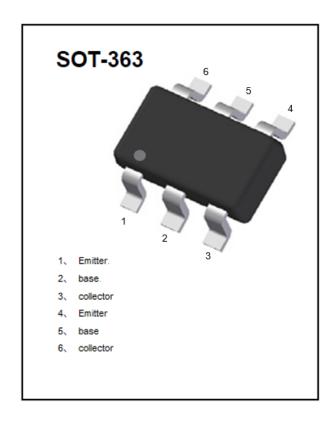






Dual PNP Small Signal Transistor



Features

- Epoxy meets UL-94 V-0 flammability rating
- Surface mount package ideally Suited for Automatic Insertion
- PNP

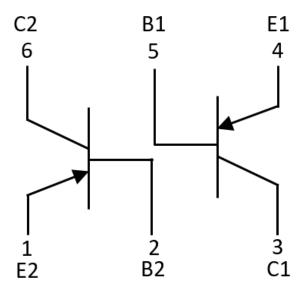
Mechanical Data

• Package: SOT-363

• **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Marking: K3N

■Equivalent circuit





MMDT3906

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Value	
Collector-Emitter Voltage	V _{CEO}	V	I _C =-1mAdc, I _B =0	-40	
Collector-Base Voltage	V _{CBO}	V	I _C =-10uAdc, I _E =0	-40	
Emitter-Base Voltage	V _{EBO}	V	I _E =-10uAdc, I _C =0	-5	
Collector Current	Ic	mA		-200	
Collector Power Dissipation	Pc	mW		200	
Junction Temperature	T _j	$^{\circ}$		-55 to +150	
Storage Temperature	T _{stg}	$^{\circ}$		-55 to +150	

■ Electrical Characteristics (Ta=25°C unless otherwise specified)

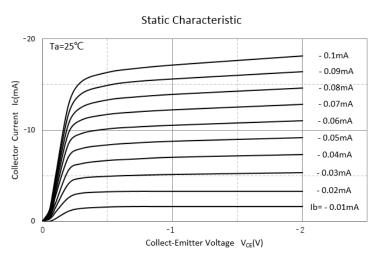
Item	Symbol	Unit	Conditions	Min	TYP	Max
Collector-base breakdown voltage	V _{CBO}	V	IC=-10μA,IE=0	-40		
Collector-emitter breakdown voltage	V _{CEO}	V	IC =-1mA,IB=0	-40		
Emitter-base breakdown voltage	V_{EBO}	V	IE=-10μA,IC=0	-5		
Collector-Base cut-off current	I _{CBO}	nA	VCB=-30V,IE=0			-50
Emitter-Base Cut-off current	I _{EBO}	nA	VEB=-5V,IC=0			-50
DC current gain	h _{FE(1)}		VCE=-1V,IC=-0.1mA	40		
	h _{FE(2)}		VCE=-1V,IC=-1mA	70		
	h _{FE(3)}		VCE=-1V,IC=-10mA	100		300
	h _{FE(4)}		VCE=-1V,IC=-50mA	60		
	h _{FE(5)}		VCE=-1V,IC=-100mA	30		
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=-10mA,IB=-1mA			-0.25
			IC=-50mA,IB=-5mA			-0.4
Baser-emitter saturation voltage	V _{BE(sat)}	V	IC=-10mA,IB=-1mA	-0.65		-0.85
			IC=-50mA,IB=-5mA			-0.95
Collector-base Output Capacitance	Cobo	pF	V _{CB} =-5.0Vdc, f=1.0MHz, I _E =0			4.5
Transition frequency	f _T	MHz	VCE=-20V,IC=-10mA, f=100MHz	250		
Noise figure	NF	dB	VCE=-5V,Ic=-0.1mA, f=1kHz,Rs=1KΩ			4

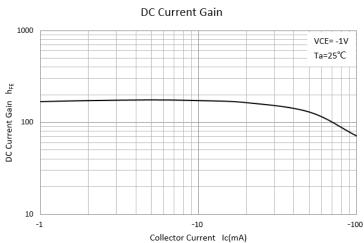
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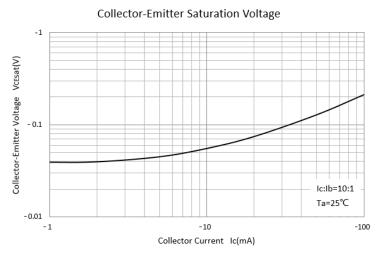
■ Ordering Information (Example)

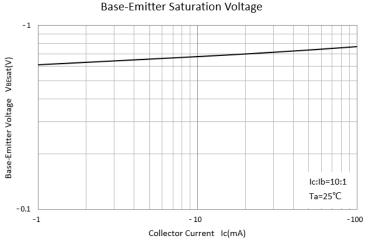
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
MMDT3906	F2	Approximate 0.009g	3000	30000	120000	7" reel	

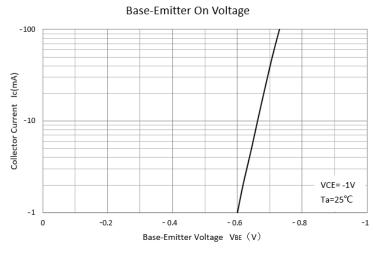
■ Characteristics (Typical)

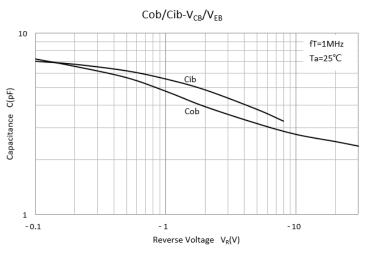






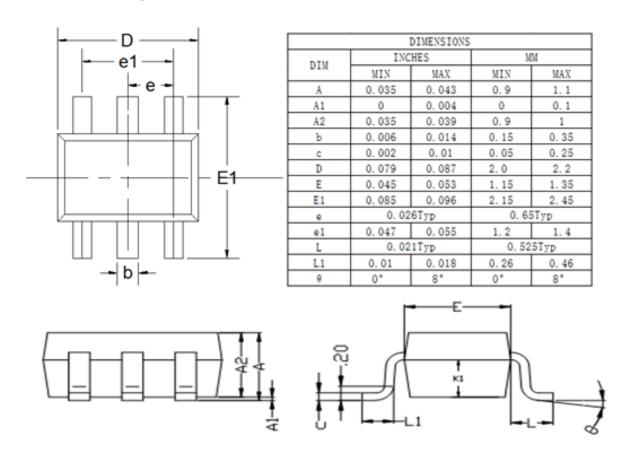




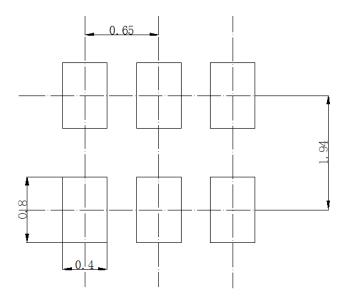




■SOT-363 Package Outline Dimensions



■SOT-363 Soldering Footprint



Unit: mm



MMDT3906

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