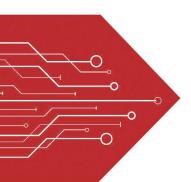
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

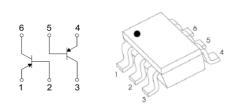
Broduct data sheet











SOT-363

MMDT3906

DUAL TRANSISTOR (PNP+PNP)

FEATURES

- Epitaxial planar die construction
- Ideal for low power amplification and switching

MARKING:K3N

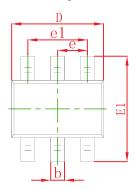
MAXIMUM RATINGS(T_a=25℃ unless otherwise noted)

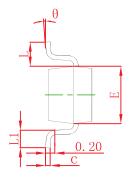
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-40	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	-0.2	Α
Pc	Collector Power Dissipation	0.2	W
R _{0JA}	Thermal Resistance. Junction to Ambient Air	625	°C/W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55-150	℃

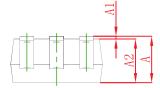
ELECTRICAL CHARACTERISTICS(Ta=25°Cunless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-10μA,I _E =0	-40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA,I _B =0	-40			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I _E =-10μA,I _C =0	-5			V
Collector cut-off current	I _{CEX}	V_{CE} =-30V, $V_{EB(OFF)}$ =-3V			-50	nA
Base cut-off current	I _{EBO}	V_{EB} =-5 V , I_{C} =0			-50	nA
	h _{FE(1)}	V _{CE} =-1V,I _C =-0.1mA	60			
	h _{FE(2)}	V _{CE} =-1V,I _C =-1mA	80			
DC current gain	h _{FE(3)}	V _{CE} =-1V,I _C =-10mA	100		300	
	h _{FE(4)}	V _{CE} =-1V,I _C =-50mA	60			
	h _{FE(5)}	V _{CE} =-1V,I _C =-100mA	30			
Callantar amittar actuantian valtara	V _{CE(sat)1}	I _C =-10mA,I _B =-1mA			-0.25	V
Collector-emitter saturation voltage	V _{CE(sat)2}	I _C =-50mA,I _B =-5mA			-0.4	V
Base-emitter saturation voltage	V _{BE(sat)1}	I _C =-10mA,I _B =-1mA	-0.65		-0.85	V
Base-enniter saturation voitage	V _{BE(sat)2}	I _C =-50mA,I _B =-5mA			-0.95	V
Transition frequency	f _T	V _{CE} =-20V,I _C =-10mA,f=100MHz	250			MHz
Collector output capacitance	C _{ob}	V _{CB} =-5V,I _E =0,f=1MHz			4.5	pF
Noise figure	NF	V_{CE} =-5V, I_c =-0.1mA, f =1KHz, R_g =1K Ω			4	dB
Delay time	t _d	V _{CC} =-3V, V _{BE} =0.5V			35	nS
Rise time	t _r	I _C =-10mA , I _{B1} =-I _{B2} =-1mA			35	nS
Storage time	ts	V _{CC} =-3V, I _C =-10mA			225	nS
Fall time	t _f	I _{B1} =-I _{B2} =- 1mA			75	nS

SOT-363 Package Outline Dimensions

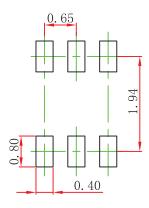






Symbol	Dimensions In Millimeters		Dimensions In Inches		
Syllibol	Min	Max	Min	Max	
Α	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.150	0.350	0.006	0.014	
С	0.100	0.150	0.004	0.006	
D	2.000	2.200	0.079	0.087	
E	1.150	1.350	0.045	0.053	
E1	2.150	2.400	0.085	0.094	
е	0.650 TYP		0.026 TYP		
e1	1.200	1.400	0.047	0.055	
L	0.525 REF		0.021 REF		
L1	0.260	0.460	0.010	0.018	
θ	0°	8°	0°	8°	

SOT-363 Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters. 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
MMDT3906	SOT-363	3000



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