

MMDT3906 SOT-363 Plastic-Encapsulate Transistors

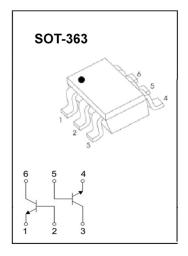
General description

SOT-363 Plastic-Encapsulate Transistors

FEATURES

- DUAL TRANSISTOR (PNP+PNP)
- Complementary to MMDT3904
- Ideal for low power amplification and switching

Symbol	Parameter	Value	Units
V сво	Collector-Base Voltage	-40	V
V CEO	Collector-Emitter Voltage	-40	V
V EBO	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	-200	Α
Pc	Collector Power Dissipation	200	W
TJ	Junction Temperature	150	°C
Tstg	Storage Temperature	-55-+150	°C



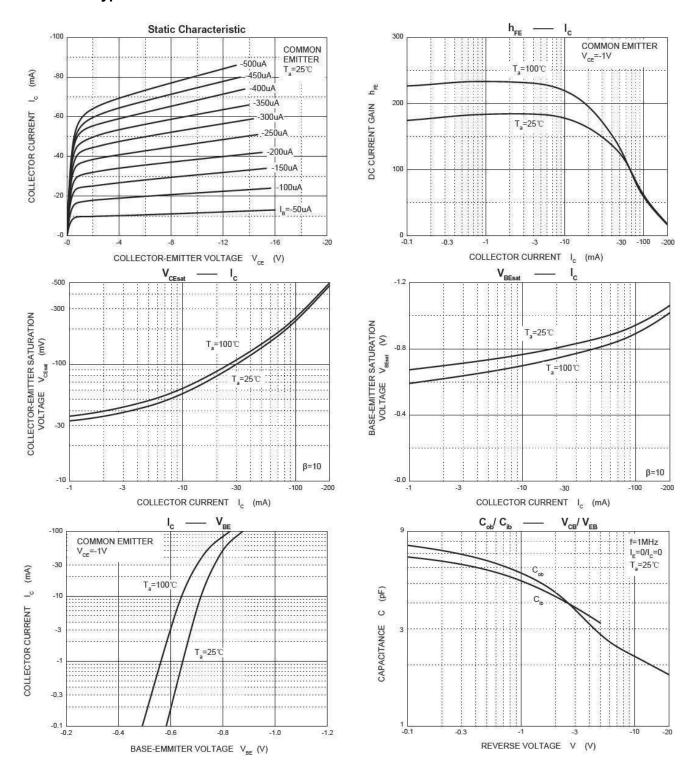
MARKING: K3N

Absolute Maximum Ratings(Ta=25°C unless otherwise specified)

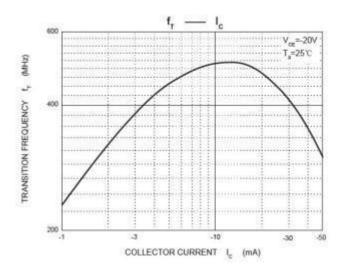
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	IC=10µA,IE=0	-40			V
Collector-emitter breakdown voltage	V(BR)CEO	IC=1mA,IB=0	-40			V
Emitter-base breakdown voltage	V(BR)EBO	IE=10μA,IC=0	-5			V
Emitter cut-off current	IEBO	VEB=-5V,IC=0			-50	nA
Collector cut-off current	ICEX	VCE=-30V,VBE(off)=-3V			-50	nA
	hFE(1)	VCE=-1V,IC=-0.1mA	60			
	hFE(2)	VCE=-1V,IC=-1mA	80			
DC current gain	hFE(3)	VCE=-1V,IC=-10mA	100		300	
	hFE(4)	VCE=-1V,IC=-50mA	60			
	hFE(5)	VCE=-1V,IC=-100mA	30			
Collector emitter acturation valtage	VCE(sat)1	IC=-10mA,IB=-1mA			-0.25	V
Collector-emitter saturation voltage	VCE(sat)2	IC=-50mA,IB=-5mA			-0.4	V
Dago emitter esturation valtage	VBE(sat)1 IC=-10mA,IB=-1mA -0.65		-0.85	V		
Base-emitter saturation voltage	VBE(sat)2	IC=-50mA,IB=-5mA			-0.95	V
Transition frequency	fT	VCE=-20V,IC=-10mA,f=100MHz	250			MHz
Delay time	td	VCC=3V, VBE(off)=-0.5V			35	nS
Rise time	tr	IC=10mA , IB1=-IB2= 1mA			35	nS
Storage time	ts	VCC=3V, IC=10mA	225	nS		
Fall time	Fall time tf				75	nS

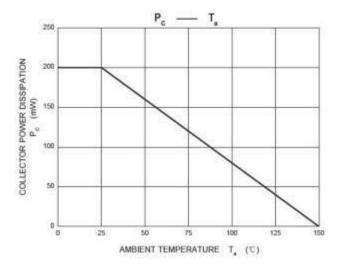


MMDT3906 Typical characteristics

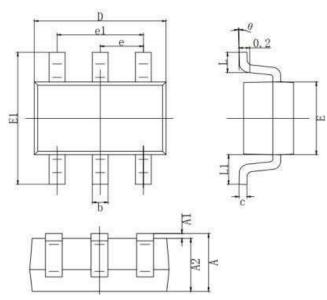








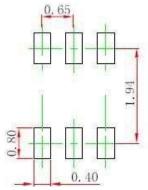
SOT-363 PACKAGE OUTLINE Plastic surface mounted package



	MILLIMETER		
SYMBOL	MIN	MAX	
A	0.900	1, 100	
A1	0.000 0.1		
A2	0.900 1.		
b	0, 150 0,		
e	0,080	0.150	
D	2,000	2, 200	
Е	1. 150	1.350	
E1	2.150 2.4		
e	0.650 TYP.		
e1	1. 200 1. 40		
L	0. 525 REF.		
L1	0.260	0. 260 0. 460	
θ	0*	8*	

Precautions: PCB Design

Recommended land dimensions for SOT-363. Electrode patterns for PCBs



Note:

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



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