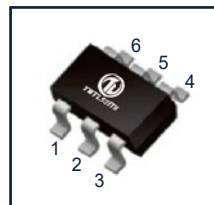
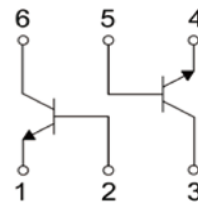


Features

- Epitaxial Planar Die Construction
- Complementary PNP Type Available(MMDT5401)
- Ideal for Medium Power Amplification and Switching



SOT-363



Equivalent Circuit

Absolute Maximum Ratings(T_A=25℃)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	180	V
V _{CEO}	Collector-Emitter Voltage	160	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current	0.2	A
P _C	Collector Power Dissipation	0.2	W
T _J , T _{stg}	Operation Junction And Storage Temperature Range	-55 ~ +150	℃

Electrical Characteristics (T_A=25℃ unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =100μA, I _E =0	180			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =1mA, I _B =0	160			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =10μA, I _C =0	6			V
I _{CBO}	Collector cut-off current	V _{CB} =120V, I _E =0			0.05	μA
I _{EBO}	Emitter cut-off current	V _{EB} =4V, I _C =0			0.05	μA
h _{FE(1)}	DC current gain	V _{CE} =5V, I _C =1mA	80			
h _{FE(2)}		V _{CE} =5V, I _C =10mA	100		300	
h _{FE(3)}		V _{CE} =5V, I _C =50mA	30			
V _{CE(sat)(1)}	Collector-emitter saturation voltage	I _C =10mA, I _B =1mA			0.15	V
V _{CE(sat)(2)}		I _C =50mA, I _B =5mA			0.2	V
V _{BE(1)}	Base-emitter voltage	I _C =10mA, I _B =1mA			1	V
V _{BE(2)}		I _C =50mA, I _B =5mA			1	V
f _T	Transition frequency	V _{CE} =10V, I _C =10mA, f=100MHz	100		300	MHz
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0A, f=1MHz			6	pF
NF	Noise Figure	V _{CE} =5V, I _C =0.2mA, R _S =1K, f=1kHz			8	dB

Ordering information

Product ID	Pack	Naming rule	Marking	h _{FE(1)}	Qty(PCS)
MMDT5551	SOT-363	MMDT5551 ↓ 产品名称 product name	K4N	100-300	3000



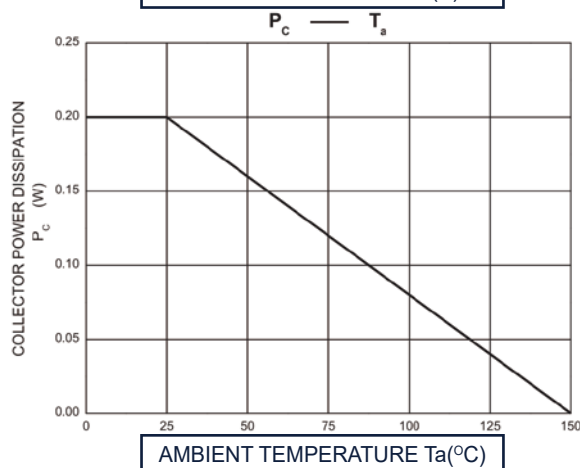
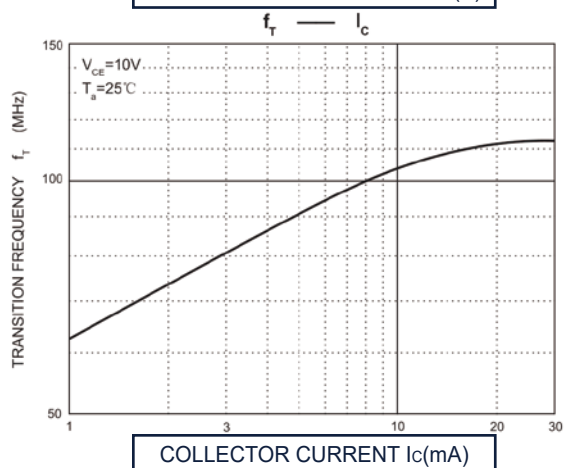
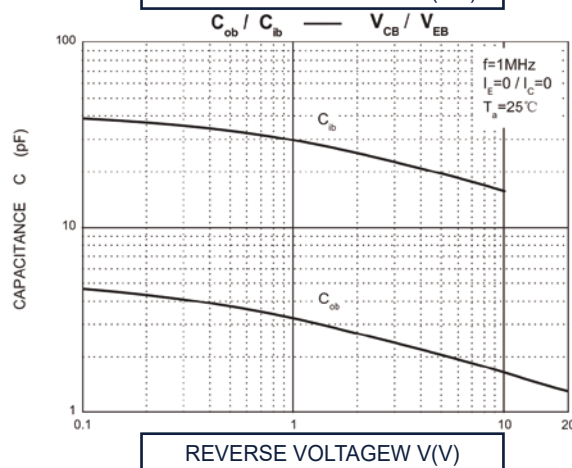
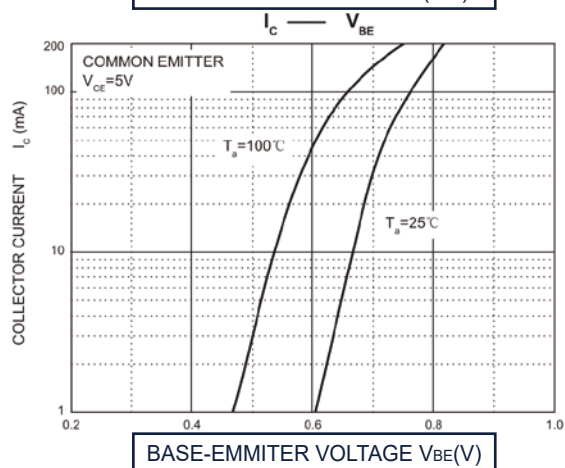
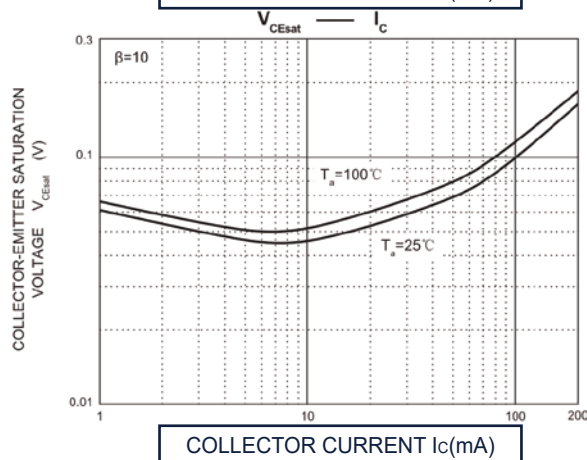
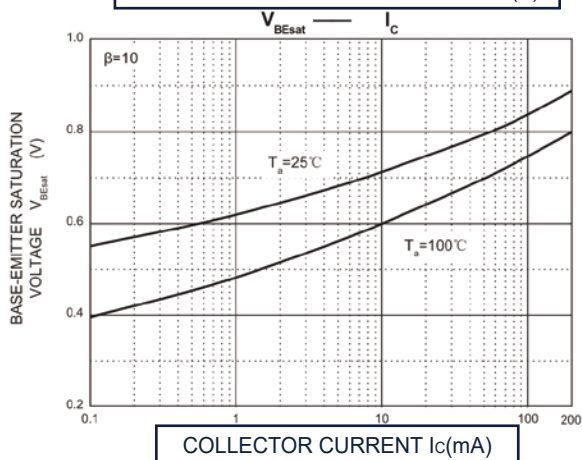
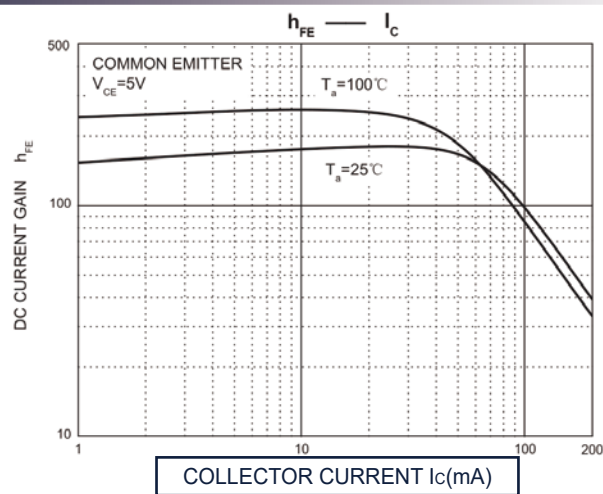
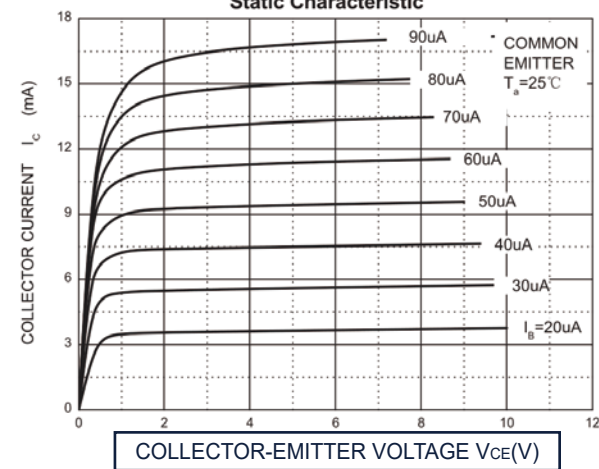
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SOT-363 DUAL TRANSISTOR (NPN+NPN)

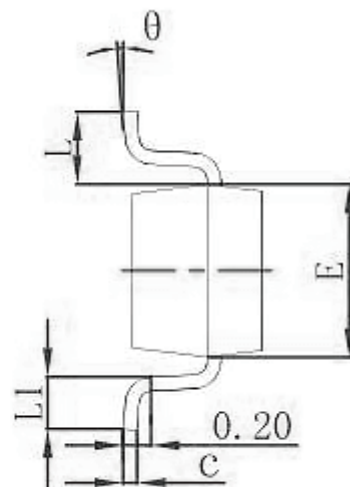
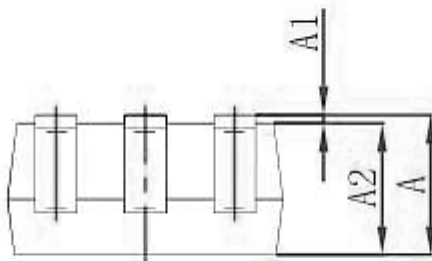
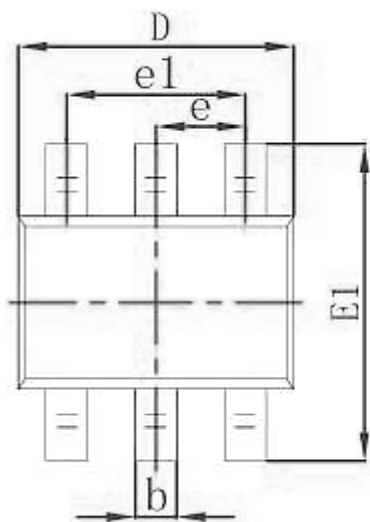
Typical Characteristics

Static Characteristic





SOT-363 Package Outline Dimensions



Symbol	Dimensions in Millimeters		Dimensions in Inches	
	Min	Max	Min	Max
A	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
c	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	2.450	0.085	0.096
e	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°