

Plastic-Encapsulate Transistors

DUAL TRANSISTOR (PNP+PNP)

FEATURES

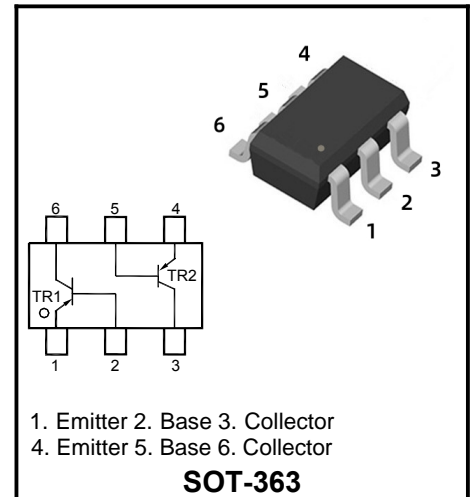
Complementary NPN Type available MMDT2222ADW

Marking Code

MMDT2907ADW	K2F
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MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

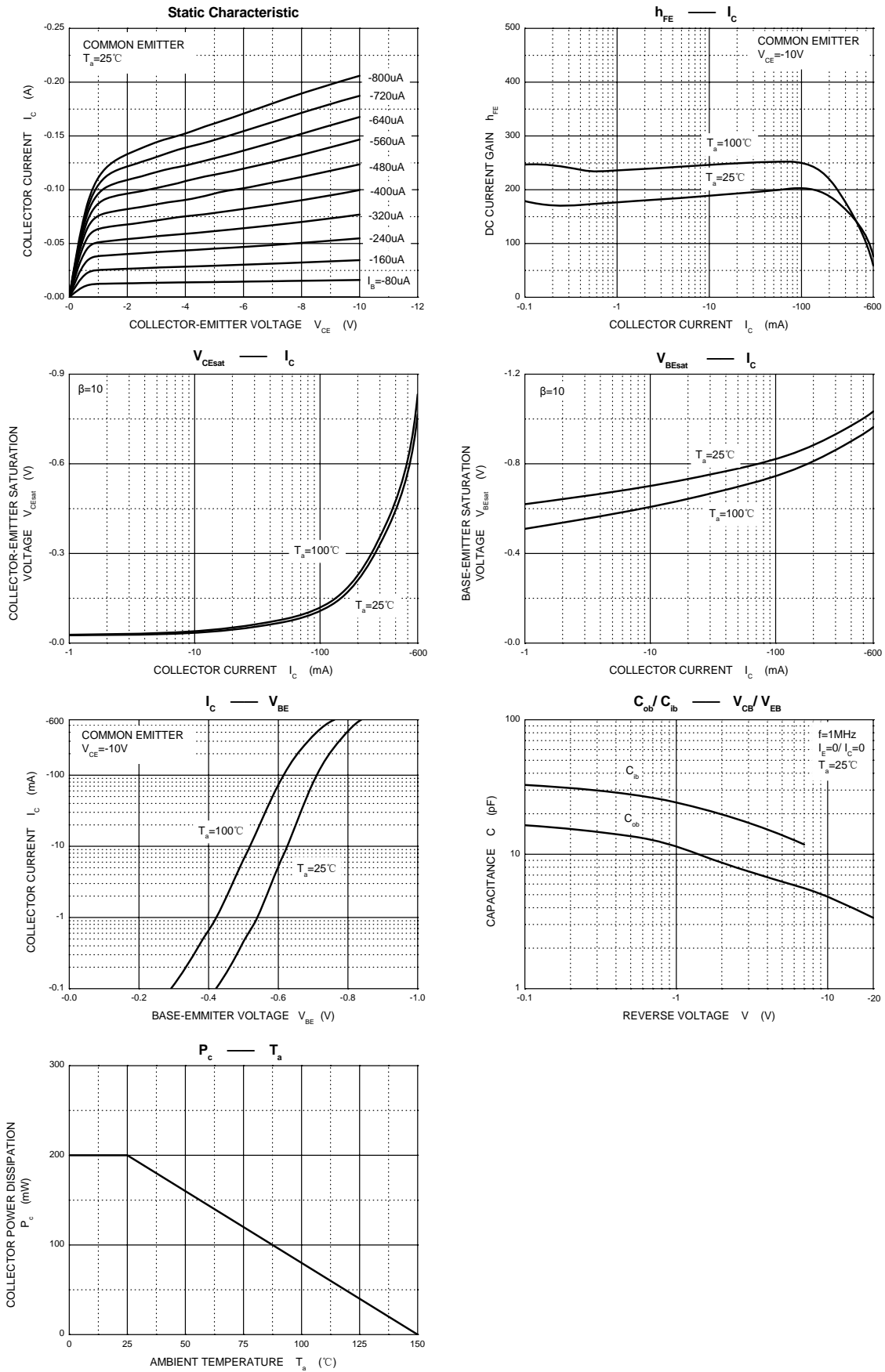
Symbol	Parameter	Value	Units
V _{CB0}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-60	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-600	mA
P _C	Collector Power Dissipation	200	mW
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C



ELECTRICAL CHARACTERISTICS (Ta=25 °C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -10μA, I _E =0	-60		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -10mA, I _B =0	-60		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-10μA, I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} =-50V, I _E =0		-10	nA
Collector cut-off current	I _{CEX}	V _{CE} =-30V, V _{EB(off)} =-0.5V		-50	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0		-10	nA
DC current gain	h _{FE(1)}	V _{CE} =-10V, I _C = -0.1mA	75		
	h _{FE(2)}	V _{CE} =-10V, I _C = -1mA	100		
	h _{FE(3)}	V _{CE} =-10V, I _C =-10mA	100		
	h _{FE(4)}	V _{CE} =-10V, I _C = -150mA	100	300	
	h _{FE(5)}	V _{CE} =-10V, I _C =-500mA	50		
Collector-emitter saturation voltage	V _{CE(sat)1}	I _C =-150mA, I _B =-15mA		-0.4	V
	V _{CE(sat)2}	I _C =-500mA, I _B =- 50mA		-1.6	V
Base-emitter saturation voltage	V _{BE(sat)1}	I _C =-150mA, I _B =-15mA		-1.3	V
	V _{BE(sat)2}	I _C =-500mA, I _B =- 50mA		-2.6	V
Transition frequency	f _T	V _{CE} =-20V, I _C = -50mA, f=100MHz	200		MHz
Output Capacitance	C _{ob}	V _{CB} =-10V, I _E = 0, f=1MHz		8	pF
Input Capacitance	C _{ib}	V _{EB} =-2V, I _C = 0, f=1MHz		30	pF
Delay time	t _d	V _{CC} =-30V, I _C =-150mA, I _{B1} =-15mA		10	nS
Rise time	t _r			40	nS
Storage time	t _s	V _{CC} =-6V, I _C =-150mA,		225	nS
Fall time	t _f	I _{B1} = I _{B2} = -15mA		60	nS

Typical Characteristics



Ordering information

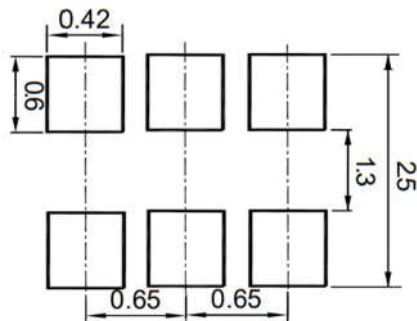
Package	Packing Description	Packing Quantity
SOT-363	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOT-363

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
A1	-	0.1	-	3.94
bp	0.20	0.30	7.87	11.81
c	0.10	0.25	3.94	9.84
D	1.8	2.2	70.87	86.61
E	1.15	1.35	45.28	53.15
e	1.3		51.18	
e1	0.65		25.6	
HE	2.0	2.2	78.74	86.6
Lp	0.15	0.45	5.90	17.71
Q	0.15	0.25	5.90	9.84
v	0.2		7.78	
w	0.2		7.78	
y	0.1		3.94	

The recommended mounting pad size



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