

FEATURES

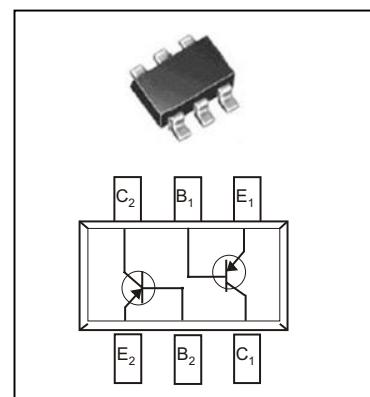
Complementary PNP Type available MMDT222A

MARKING: K2F

MAXIMUM RATINGS (TA=25°C unless otherwise noted)

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

MMDT2907A(PNP)



SOT-363

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

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{CBO}	I _C = -10μA, I _E =0	-60		V
Collector-emitter breakdown voltage	V _{CEO}	I _C = -10mA, I _B =0	-60		V
Emitter-base breakdown voltage	V _{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, I _{B1} = I _{B2} = -15mA		225	nS
Fall time	t _f			60	nS

MMDT2907A Typical Characteristics
