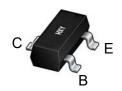


Features

Switching transistor

Extremely low saturation voltage

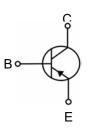
Complementary NPN type: FMMT619



SOT-23

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
FMMT720	SOT-23	720	3000



Maxmim Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-40	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current	-0.5	Α
Ісм	Peak Pulse Current	-4	Α
Pc	Collector Power Dissipation	350	mW
R _{ΘJA}	Thermal Resistance From Junction To Ambient	500	°C/W
T _J ,T _{stg}	Operation Junction And Storage Temperature Range	-55~+150	$^{\circ}$

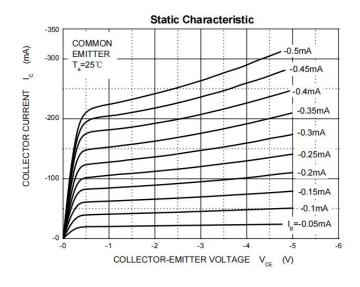


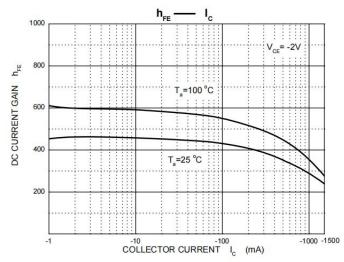
Electrcal Charcteristics (Ta=25 unless otherwise noted)

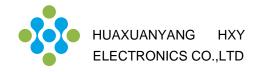
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	Ic=-100µA, IE=0	-40			٧
Collector-emitter breakdown voltage	V(BR)CEO*	Ic= -10mA, I _B =0	-40			V
Emitter-base breakdown voltage	V(BR)EBO	I _E = -100μA, I _C =0	-5			V
Collector cut-off current	Ісво	V _{CB} =-35V, I _E =0			-0.1	μA
Collector cut-off current	Ices	V _{CE} =-35V,V _{BE} =0			-0.1	μΑ
Emitter cut-off current	ІЕВО	V _{EB} = -4V, I _C =0			-0.1	μΑ
	hfE(1) *	Vc= -2V, Ic=-10mA	300			
	hFE(2) *	Vce=-2V, Ic=-100mA	300			
DC current gain	hFE(3) *	Vce=-2V, Ic=-1A	180			
	hFE(4) *	Vc=-2V, Ic=-1.5A	60			
	hFE(5) *	Vce=-2V, Ic=-3A	12			
	VCE(sat) (1) *	Ic=-0.1A, IB=-10mA			-40	mV
Collector-emitter saturation voltage	VCE(sat) (2) *	Ic=-1A, Iв=-50mA			-220	mV
	VCE(sat) (3) *	Ic=-1.5A, Iв=-100mA	-40 5 -5 -300 300 180 60 12		-330	mV
Base-emitter saturation voltage	VBE(sat) *	Ic=-1.5A, Iв= -75mA			-1	V
Base-emitter voltage	VBE(on) *	Vc=-2V, Ic=-1.5A			-1	٧
Transition frequency	f⊤	Vc=-10V,lc=-50mA, f=100MHz	150			MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V,f=1MHZ			25	pF
Turn-on Time	t _(on)	Vcc=-15V, Ic=-0.75A,		40		ns
Turn-off Time	t _(off)	I _{B1} = I _{B2} =-15mA		435		ns

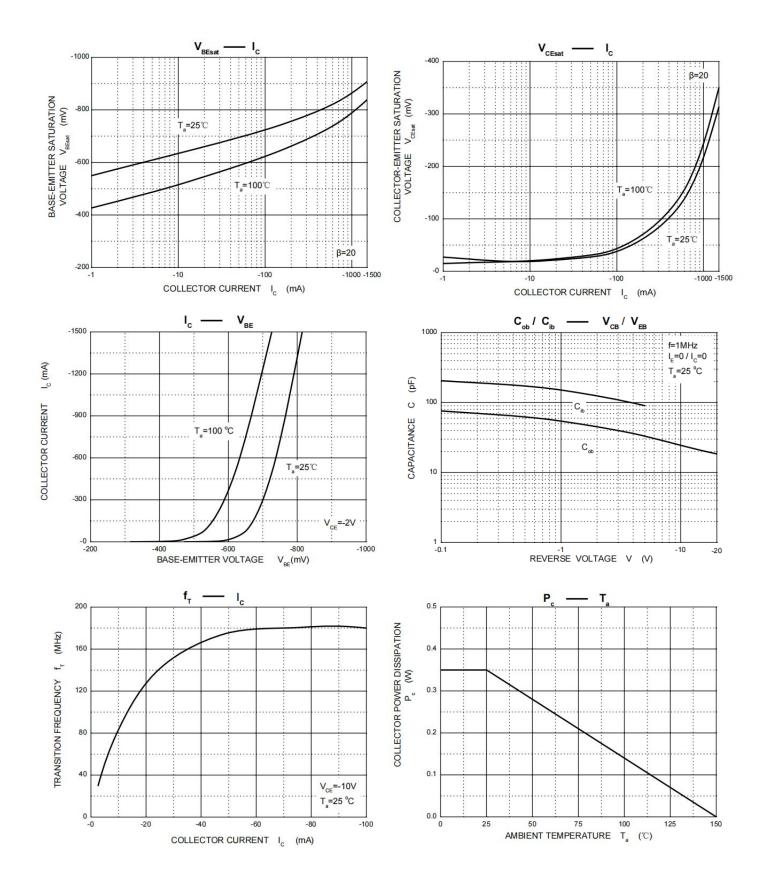
^{*}Measured under pulse conditions . Pulse width =300µs. Duty cycle≤2%.

Typical Characteristics

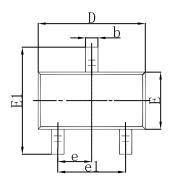


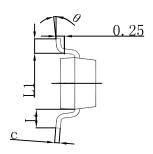


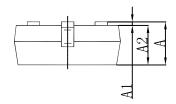




SOT-23 Package Outline Dimensions







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	



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