



Product data sheet

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FMMT+% TRANSISTOR (PNP)

FEATURE

- Extremely low saturation voltage
- Complementary NPN type: FMMT618

APPLICATION

- Gate Driving MOSFETs and IGBTs
- DC-DC converters
- Charging circuit
- Power switches

MARKING: 718

Symbol	Parameter	Value	Unit
Vсво	Collector-Base Voltage	-20	V
VCEO	Collector-Emitter Voltage	-20	V
Vево	Emitter-Base Voltage	-7	V
Ів	Ic Collector Current -Continuous Pc Total Collector Dissipation		А
lc			А
Pc			mW
R _{oja}			°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

1. BASE

SOT - 23

2. EMITTER

3. COLLECTOR

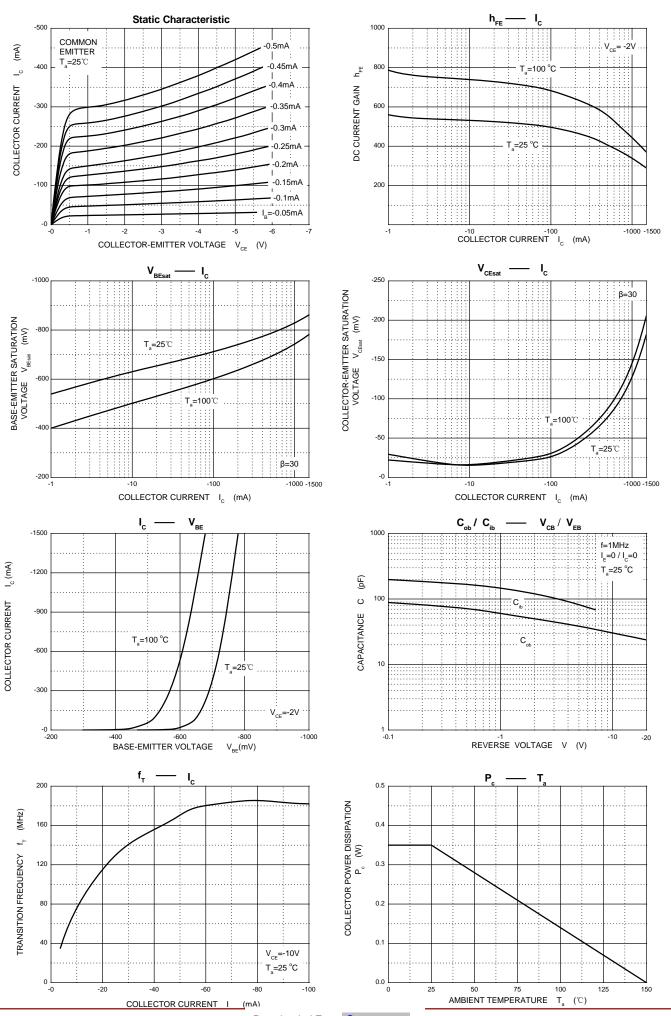


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Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	Ic=-100µA, IE=0	-20			V
Collector-emitter breakdown voltage	V(BR)CEO	Ic= -10mA, Iв=0	-20			V
Emitter-base breakdown voltage	V(BR)EBO	Iε= -100μΑ, Ic=0	-7			V
Collector cut-off current	Ісво	Vсв=-15V, Ie=0			-0.1	μA
Collector cut-off current	ICES	Vce=-15V,V _{BE} =0			-0.1	μA
Emitter cut-off current	Іево	VEB= -4V, Ic=0			-0.1	μA
	hfe(1) *	Vce= -2V, Ic=-10mA	300			
	hfe(2) *	Vce=-2V, Ic=-100mA	300	600		
DC current gain	hfe(3) *	Vce=-2V, Ic=-2A	150			
	hfe(4) *	Vce=-2V, Ic=-4A	35			
	Vce(sat) (1) *	Ic=-0.1A, Iв=-10mA			-40	mV
Collector-emitter saturation voltage	VCE(sat) (2) *	Ic=-1А, Iв=-20mА			-200	mV
	Vce(sat) (3) *	Ic=-1.5А, Iв=-50mА			-220	mV
Base-emitter saturation voltage	VBE(sat) *	Ic=-1.5А, Iв= -50mА			-1	V
Base-emitter voltage	VBE(on) *	Vce=-2V, Ic=-2A			-1	V
Transition frequency	f⊤	Vce=-10V,Ic=-50mA, f=100MHz	150			MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V,f=1MHZ			30	pF
Turn-on Time	t _(on))/aa- 10)/ la- 14 la-laa- 20m4		40		ns
Furn-off Time t _(off)		Vcc=-10V, Ic=-1A, IB1=IB2=-20mA		670		ns

*Measured under pulse conditions . Pulse width =300 μ s. Duty cycle≤2%.





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HF

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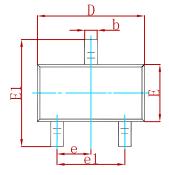
FMMT718

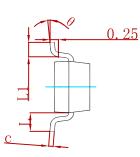
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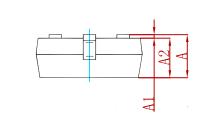




PACKAGE MECHANICAL DATA

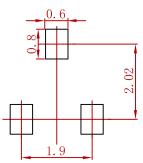






Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022	2 REF	
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

Suggested Pad Layout



Note:

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

REEL SPECIFICATION

P/N	PKG	QTY
FMMT718	SOT-23	3000





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