

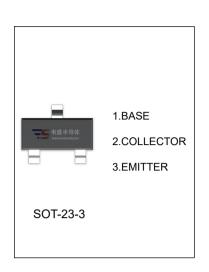
FMMT718 TRANSISTOR (PNP)

FEATURE

- Extremely low saturation voltage
- Complementary NPN type: FMMT618

APPLICATION

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



MAXIMUM RATINGS (T_a=25[°]C unless otherwise noted)

Symbol	Parameter	Value	Unit
Vсво	Collector-Base Voltage	-20	V
Vceo	Collector-Emitter Voltage	-20	V
VEBO	Emitter-Base Voltage	-7	V
Ів	Base Current	-0.5	А
Ic	Collector Current -Continuous	-1.5	А
Pc	Total Collector Dissipation	350	mW
R _{OJA}	Thermal Resistance from Junction to Ambient	357	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃



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, I _B =0	-20			V
Emitter-base breakdown voltage	V(BR)EBO	I _E = -100μA, I _C =0	-7			V
Collector cut-off current	Ісво	VcB=-15V, IE=0			-0.1	μA
Collector cut-off current	Ices	Vc=-15V,V _{BE} =0			-0.1	μA
Emitter cut-off current	ІЕВО	V _{EB} = -4V, I _C =0			-0.1	μA
	hFE(1) *	Vc= -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=-1A, Iв=-20mA			-200	mV
	VCE(sat) (3) *	Ic=-1.5A, Iв=-50mA			-220	mV
Base-emitter saturation voltage	VBE(sat) *	Ic=-1.5A, I _B = -50mA			-1	V
Base-emitter voltage	VBE(on) *	Vce=-2V, Ic=-2A			-1	V
Transition frequency	f⊤	Vc=-10V,lc=-50mA, f=100MHz	150			MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V,f=1MHZ			30	pF
Turn-on Time	t _(on)	Vcc=-10V, Ic=-1A, I _{B1} =I _{B2} =-20mA		40		ns
Turn-off Time	t _(off)			670		ns

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



