

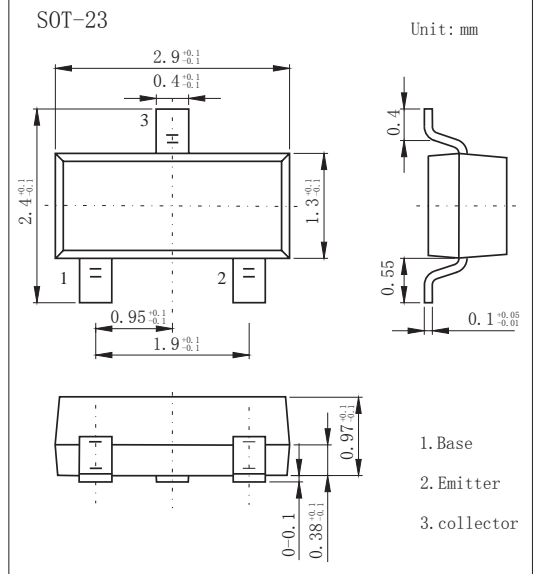
SOT-23 Plastic-Encapsulate Transistors

Features

- 625mW power dissipation.
- IC CONT 2.5A.
- IC up to 10A peak pulse current.
- Excellent hfe characteristics up to 10A (pulsed).
- Extremely low saturation voltage e.g. 10mV typ..
- Exhibits extremely low equivalent on-resistance; RCE(sat) .
- PNP Transistors

MECHANICAL DATA

- Case style:SOT-23molded plastic
- Mounting position:any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	-20	V
Collector - Emitter Voltage	V _{CE0}	-20	
Emitter - Base Voltage	V _{EB0}	-5	
Collector Current - Continuous	I _C	-1.5	A
Peak Collector Current	I _{CM}	-6	
Base Current	I _B	-500	mA
Collector Power Dissipation	P _C	625	mW
Junction Temperature	T _J	150	°C
Storage Temperature range	T _{stg}	-55 to 150	

PACKAGE INFORMATION

Device	Package	Shipping
FMMT718	SOT-23	3000/Tape&Reel

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100uA	-20	-65		V
Collector-emitter breakdown voltage *	V _{(BR)CEO}	I _C =-10mA	-20	-55		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100uA	-5	-8.8		V
Collector cutoff current	I _{CBO}	V _{CB} =-15V			-100	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-4V			-100	nA
Collector-emitter saturation voltage *	V _{CE(sat)}	I _C =-0.1A, I _B =-10mA I _C =-1A, I _B =-10mA I _C =-1.5A, I _B =-50mA		-16 -130 -145	-40 -200 -220	mV
Base-emitter saturation voltage *	V _{BE(sat)}	I _C =-1.5A, I _B =-50mA		-0.87	-1	V
Base-emitter voltage *	V _{BE(ON)}	I _C =-2A, V _{CE} =-2V		-0.81	-1	V
DC current gain *	h _{FE}	I _C =-10mA, V _{CE} =-2V I _C =-0.1A, V _{CE} =-2V I _C =-2A, V _{CE} =-2V I _C =-4A, V _{CE} =-2V I _C =-6A, V _{CE} =-2V	300 300 150 35 15	475 450 230 70 30		
Current-gain-bandwidth product	f _T	I _C =-50mA, V _{CE} =-10V, f=100MHz	150	180		MHz
Output capacitance	C _{obo}	V _{CB} =-10V, f=1MHz		21	30	pF
Turn-on time	t _(on)	V _{CC} =-10V, I _C =-1A		40		ns
Turn-off time	t _(off)	I _{B1} =-I _{B2} =-20mA		670		ns

* Pulse test: t_p ≤ 300 is; d ≤ 0.02.

Marking

Marking	718
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