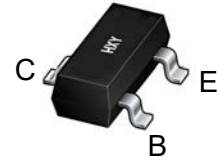




FEATURES

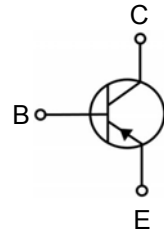
Low equivalent on-resistance



SOT-23

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
FMMT718	SOT-23	718	3000



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-20	V
V_{CEO}	Collector-Emitter Voltage	-20	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current	-1.5	A
I_B	Base Current	-0.5	A
P_C	Collector Power Dissipation	350	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	500	$^{\circ}C/W$
T_J, T_{stg}	Operation Junction And Storage Temperature Range	-55~+150	$^{\circ}C$

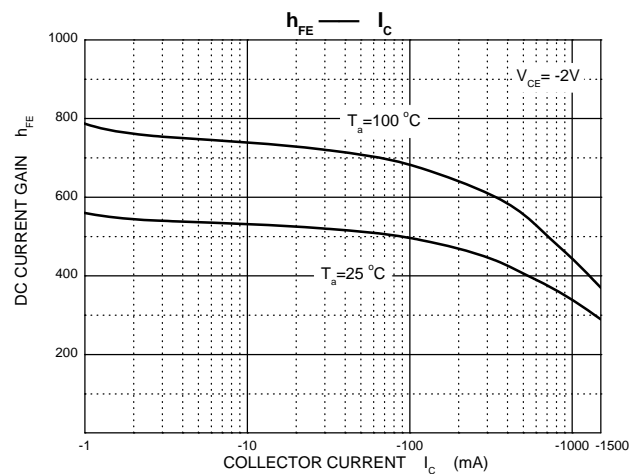
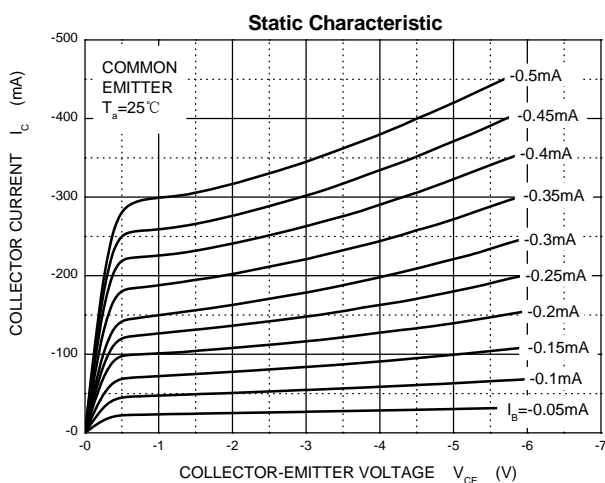


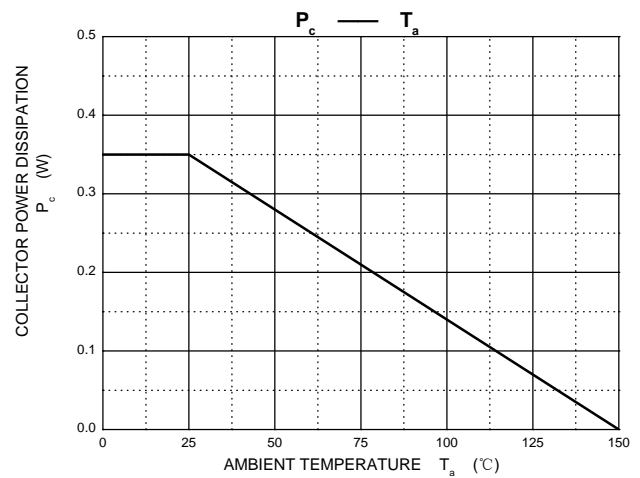
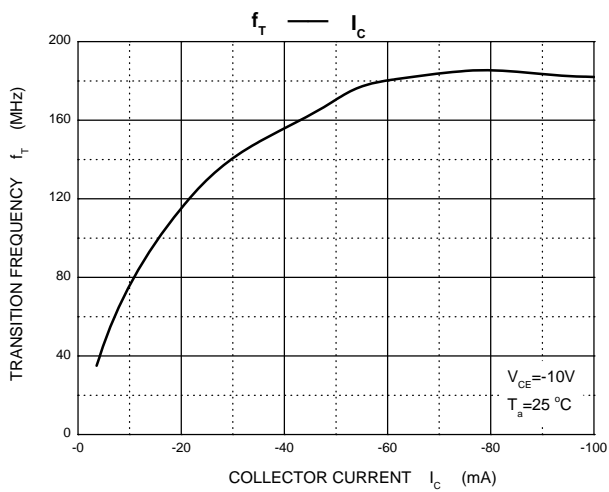
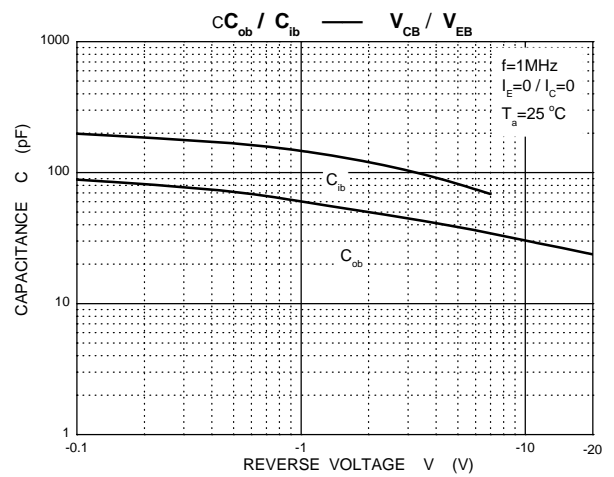
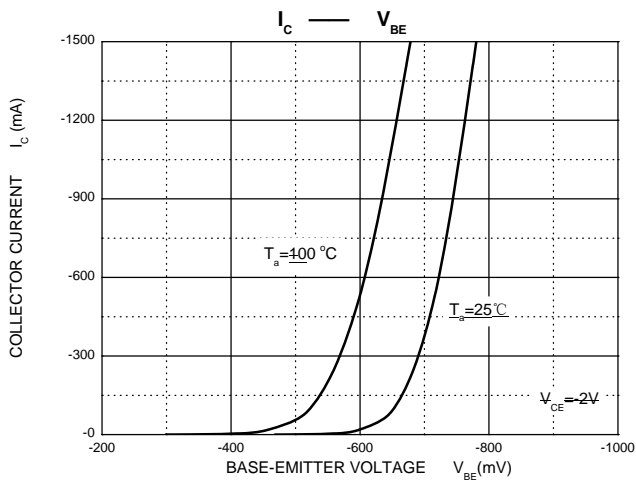
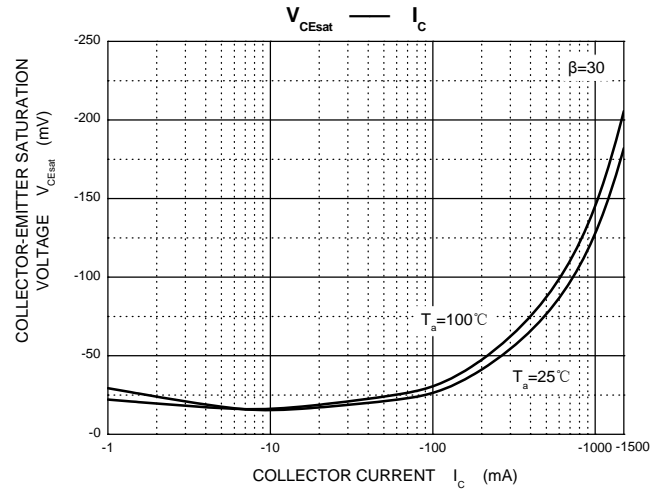
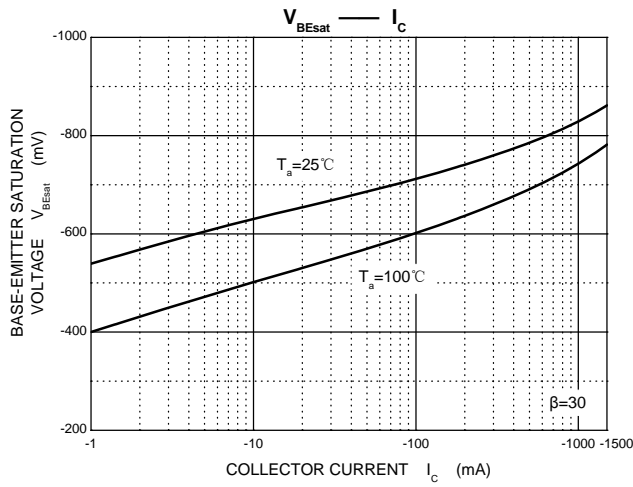
ELECTRICAL CHARACTERISTICS(Ta=25 unless otherwise noted)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100\mu A, I_E=0$	-20			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-10mA, I_B=0$	-20			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100\mu A, I_C=0$	-7			V
Collector cut-off current	I_{CBO}	$V_{CB}=-15V, I_E=0$			-0.1	μA
Collector cut-off current	I_{CES}	$V_{CE}=-15V, V_{BE}=0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-4V, I_C=0$			-0.1	μA
DC current gain	$h_{FE(1)}$ *	$V_{CE}=-2V, I_C=-10mA$	300			
	$h_{FE(2)}$ *	$V_{CE}=-2V, I_C=-100mA$	300	600		
	$h_{FE(3)}$ *	$V_{CE}=-2V, I_C=-2A$	150			
	$h_{FE(4)}$ *	$V_{CE}=-2V, I_C=-4A$	35			
Collector-emitter saturation voltage	$V_{CE(sat) (1)}$ *	$I_C=-0.1A, I_B=-10mA$			-40	mV
	$V_{CE(sat) (2)}$ *	$I_C=-1A, I_B=-20mA$			-200	mV
	$V_{CE(sat) (3)}$ *	$I_C=-1.5A, I_B=-50mA$			-220	mV
Base-emitter saturation voltage	$V_{BE(sat)}$ *	$I_C=-1.5A, I_B=-50mA$			-1	V
Base-emitter voltage	$V_{BE(on)}$ *	$V_{CE}=-2V, I_C=-2A$			-1	V
Transition frequency	f_T	$V_{CE}=-10V, I_C=-50mA, f=100MHz$	150			MHz
Collector output capacitance	C_{ob}	$V_{CB}=-10V, f=1MHz$			30	pF
Turn-on Time	$t_{(on)}$	$V_{CC}=-10V, I_C=-1A, I_{B1}=I_{B2}=-20mA$		40		ns
Turn-off Time	$t_{(off)}$			670		ns

*Measured under pulse conditions . Pulse width =300 μs . Duty cycle $\leq 2\%$.

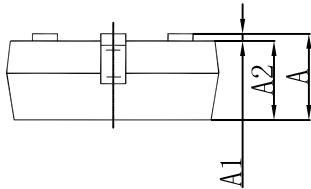
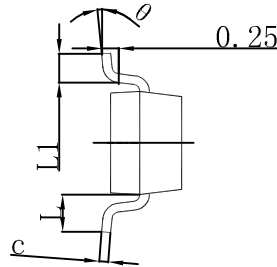
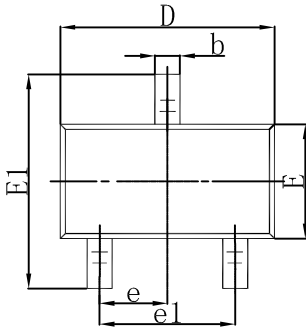
Typical Characteristics







SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	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
c	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
e	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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