

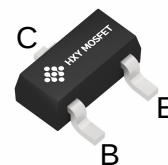


Features

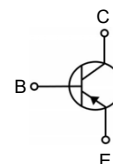
Low equivalent on-resistance

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
FMMT718TA	SOT-23	718	3000



SOT-23



Maximum Ratings (Ta=25°C 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	°C/W
T_J, T_{stg}	Operation Junction And Storage Temperature Range	-55~+150	°C

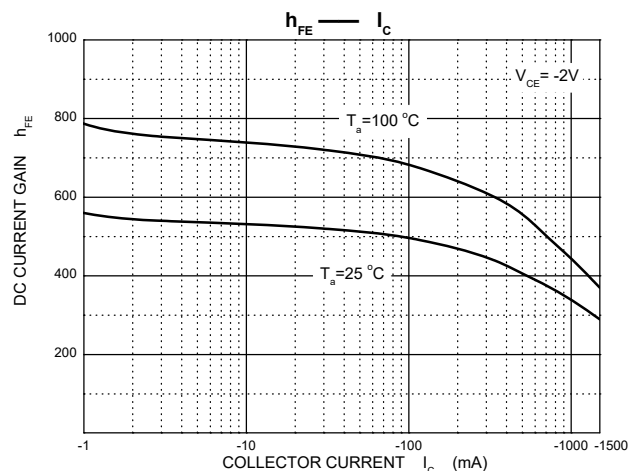
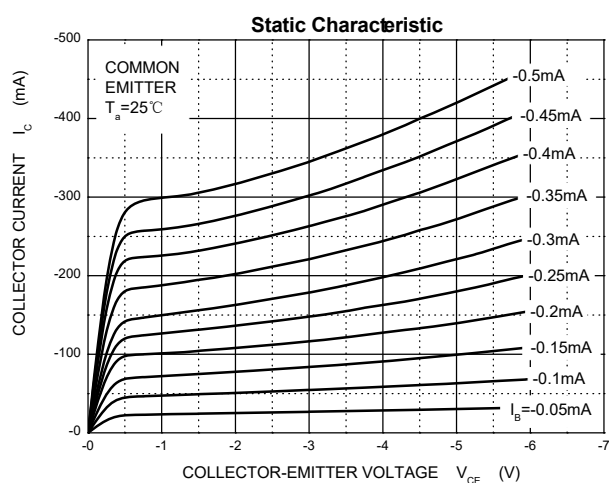


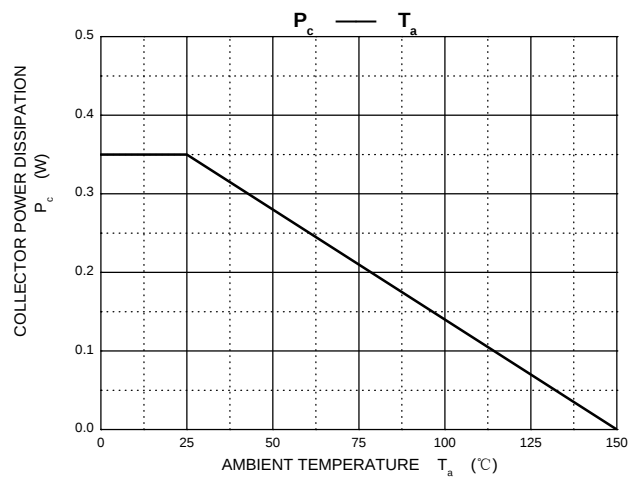
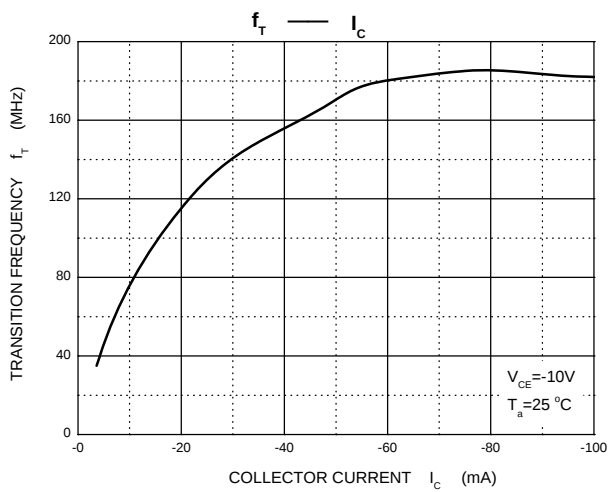
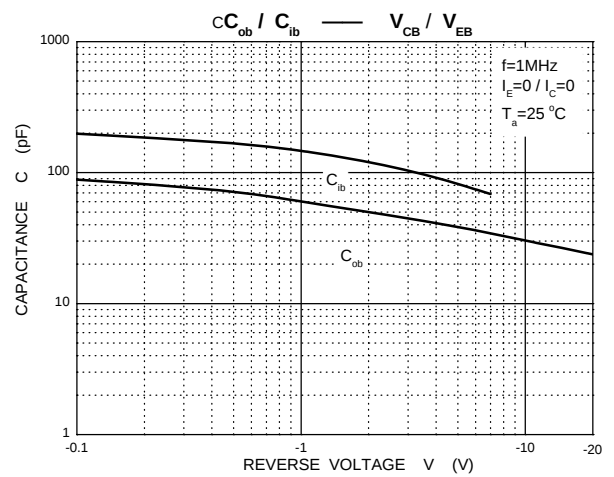
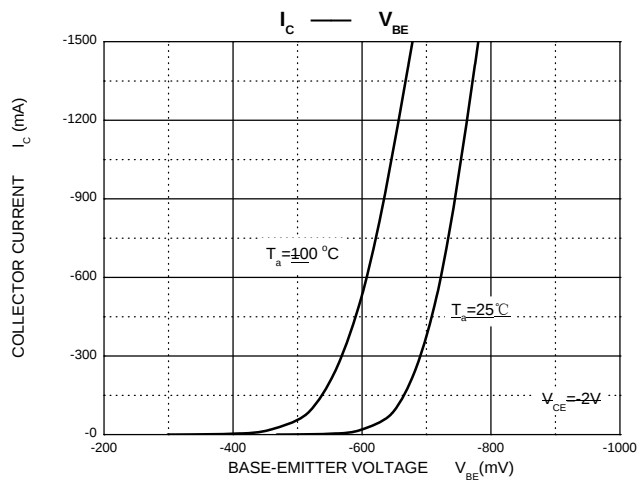
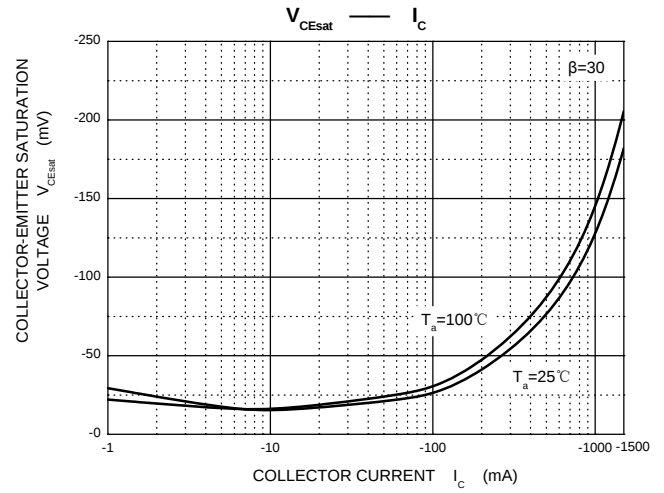
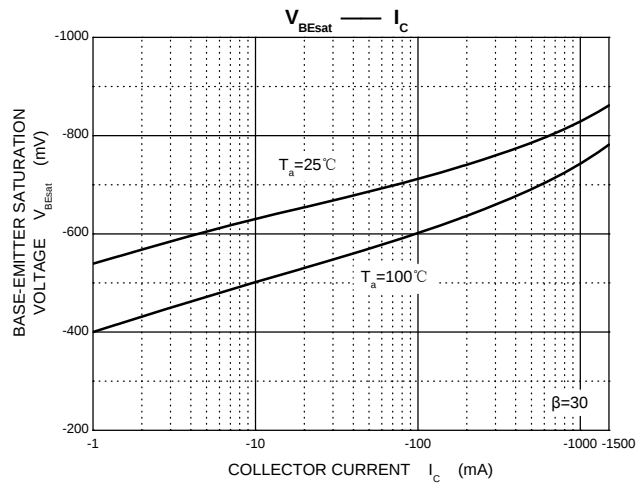
Electrical Characteristics (Ta=25°C unless otherwise noted)

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 μ s. Duty cycle $\leq$ 2%.

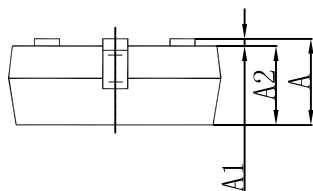
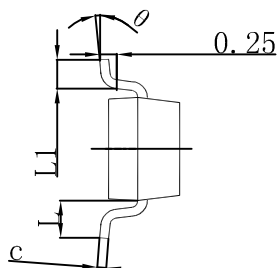
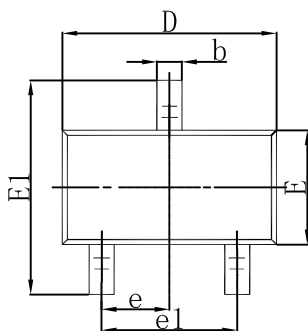
Typical Characteristics







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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