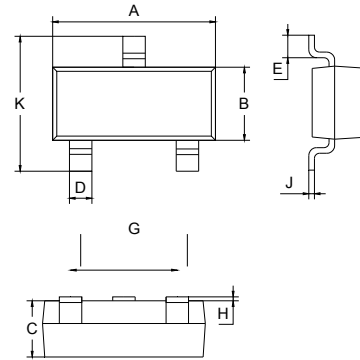


FEATURES

- High voltage.
- Complementary To FMMT558.

ORDERING INFORMATION

Type No.	Marking	Package Code
FMMT458	458	SOT-23



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	1.0 Typical	
D	0.4 Typical	
E	0.35	0.48
G	1.80	2.00
H	0.02	0.1
J	0.1 Typical	
K	2.20	2.60
All Dimensions in mm		

MAXIMUM RATING @ Ta=25°C unless otherwise specified

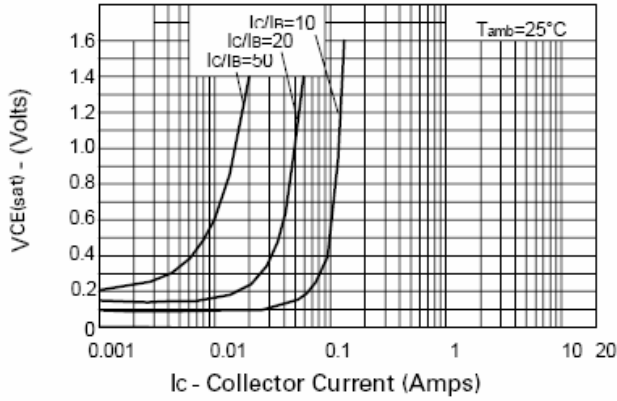
Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	400	V
V_{CEO}	Collector-Emitter Voltage	400	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current -Continuous	225	mA
I_{CM}	Peak Pulse Current	1	A
I_B	Base Current	200	mA
P_{tot}	Power Dissipation	500	mW
T_j, T_{stg}	Junction and Storage Temperature	-55 to +150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

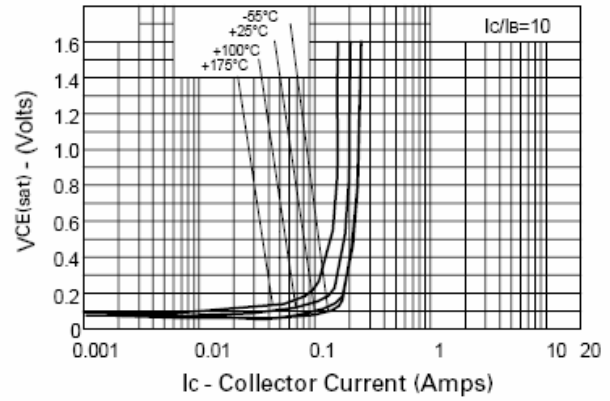
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	400			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	400			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu A, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=320V, I_E=0$			0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE}=320V, I_B=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=4V, I_C=0$			0.1	μA
DC current gain	h_{FE}	$V_{CE}=10V, I_C=1mA$	100			
		$V_{CE}=10V, I_C=50mA$	100		300	
		$V_{CE}=10V, I_C=100mA$	15			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=20mA, I_B=2mA$ $I_C=50mA, I_B=6mA$			0.2 0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=50mA, I_B=5mA$			0.9	V
Base-emitter turn on voltage	$V_{BE(on)}$	$I_C=50mA, V_{CE}=10V$			0.9	V
Transition frequency	f_T	$V_{CE}=20V, I_C=10mA$ $f=20MHz$	50			MHz
Collector output capacitance	C_{ob}	$V_{CB}=20V, f=1MHz$			5	pF
Switching times	t_{on}	$I_C=50mA, V_{CC}=100V$		135		nS
	t_{off}	$I_{B1}=5mA, I_{B2}=10mA$		2260		



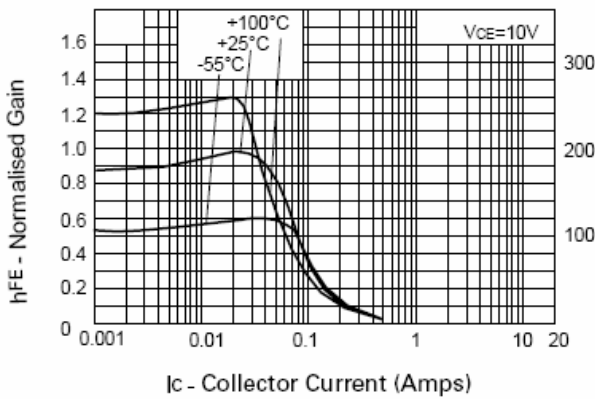
TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



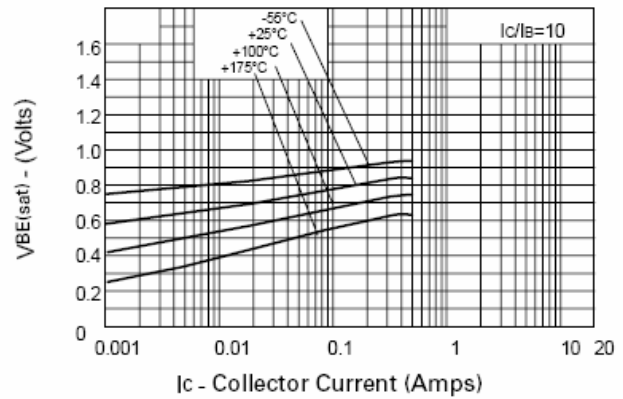
VCE(sat) v IC



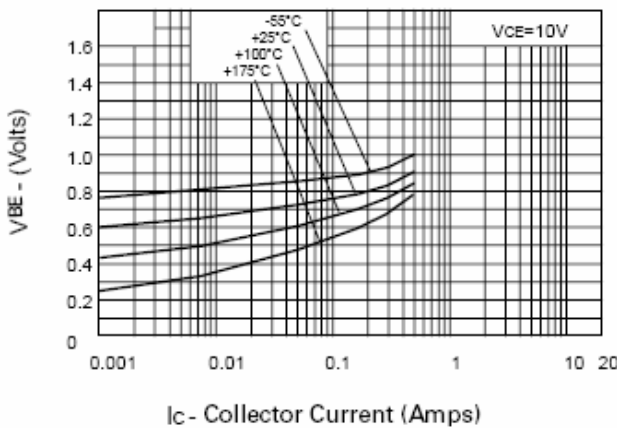
VCE(sat) v IC



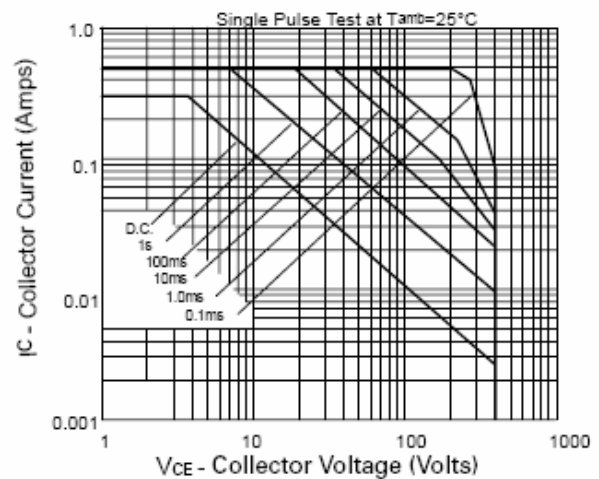
hFE v IC



VBE(sat) v IC



VBE(on) v IC



Safe Operating Area

Package	Reel	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)
SOT-23	3000pcs	7inch	45,000pcs	203×203×195	180,000pcs	438×438×220