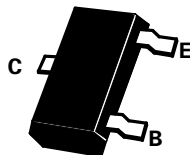


SOT23 NPN SILICON PLANAR MEDIUM POWER HIGH PERFORMANCE TRANSISTOR

FMMT495

ISSUE 3 - NOVEMBER 1995

PARTMARKING DETAIL - 495



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	170	V
Collector-Emitter Voltage	V_{CEO}	150	V
Emitter-Base Voltage	V_{EBO}	5	V
Continuous Collector Current	I_C	1	A
Peak Pulse Current	I_{CM}	2	A
Base Current	I_B	200	mA
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	500	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +150	$^{\circ}C$

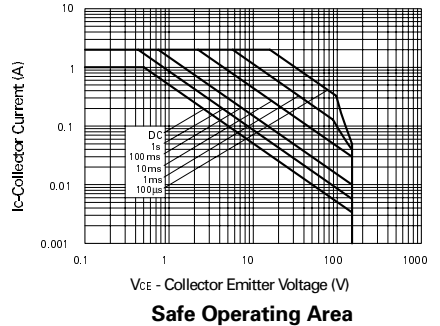
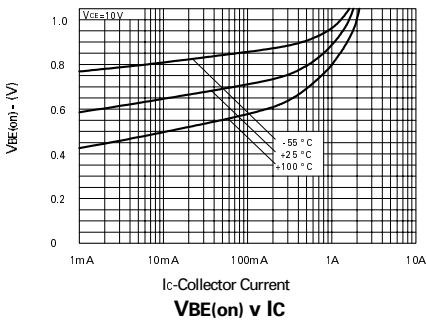
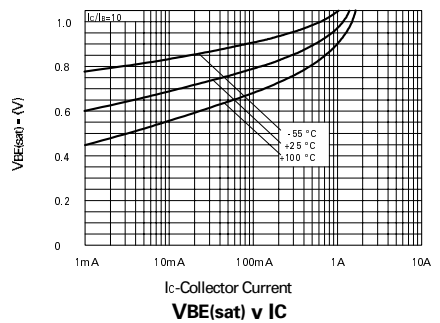
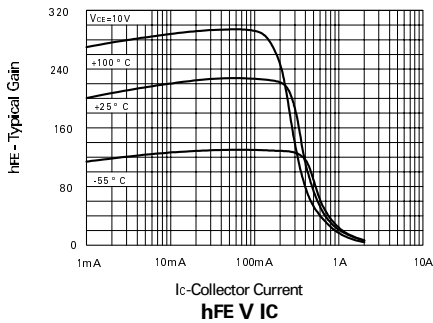
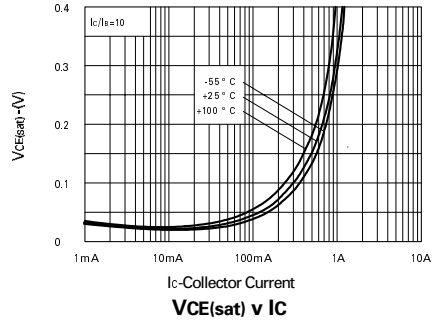
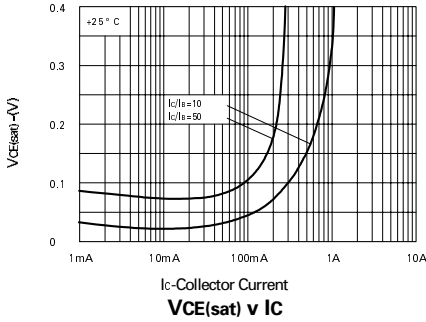
ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$).

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Breakdown Voltages	$V_{(BR)CBO}$	170		V	$I_C=100\mu A$
	$V_{CEO(sus)}$	150		V	$I_C=10mA^*$
	$V_{(BR)EBO}$	5		V	$I_E=100\mu A$
Collector Cut-Off Currents	I_{CBO}		100	nA	$V_{CB}=150V$
	I_{CES}		100	nA	$V_{CE}=150V$
Emitter Cut-Off Current	I_{EBO}		100	nA	$V_{EB}=4V$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		0.2	V	$I_C=250mA, I_B=25mA^*$ $I_C=500mA, I_B=50mA^*$
			0.3	V	
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		1.0	V	$I_C=500mA, I_B=50mA^*$
Base-Emitter Turn On Voltage	$V_{BE(on)}$		1.0	V	$I_C=500mA, V_{CE}=10V^*$
Static Forward Current Transfer Ratio	h_{FE}	100	300		$I_C=1mA, V_{CE}=10V$ $I_C=250mA, V_{CE}=10V^*$ $I_C=500mA, V_{CE}=10V^*$ $I_C=1A, V_{CE}=10V^*$
		100			
		50			
		10			
Transition Frequency	f_T	100		MHz	$I_C=50mA, V_{CE}=10V$ $f=100MHz$
Collector-Base Breakdown Voltage	C_{obo}		10	pF	$V_{CB}=10V, f=1MHz$

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

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TYPICAL CHARACTERISTICS





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