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# SuperSOT

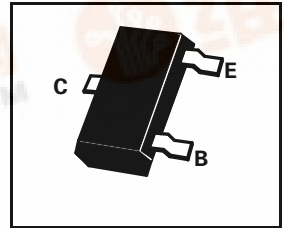
## SOT23 NPN SILICON POWER (SWITCHING) TRANSISTORS

ISSUE 3 - NOVEMBER 1995

FMMT617 FMMT618  
FMMT619 FMMT624  
FMMT625

### FEATURES

- \* **625mW POWER DISSIPATION**
- \* **I<sub>c</sub> CONT 3A**
- \* 12A Peak Pulse Current
- \* Excellent H<sub>FE</sub> Characteristics Up To 12A (pulsed)
- \* Extremely Low Saturation Voltage E.g. 8mV Typ.
- \* Extremely Low Equivalent On Resistance; R<sub>CE(sat)</sub>



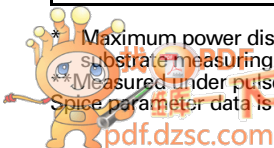
DEVICE TYPE	COMPLEMENT	PARTMARKING	R <sub>CE(sat)</sub>
FMMT617	FMMT717	617	<b>50mΩ at 3A</b>
FMMT618	FMMT718	618	<b>50mΩ at 2A</b>
FMMT619	FMMT720	619	<b>75mΩ at 2A</b>
FMMT624	FMMT723	624	-
FMMT625	-	625	-

### ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	FMMT 617	FMMT 618	FMMT 619	FMMT 624	FMMT 625	UNIT
Collector-Base Voltage	V <sub>CBO</sub>	15	20	50	125	150	V
Collector-Emitter Voltage	V <sub>CEO</sub>	15	20	50	125	150	V
Emitter-Base Voltage	V <sub>EBO</sub>	5	5	5	5	5	V
Peak Pulse Current**	I <sub>CM</sub>	12	6	6	3	3	A
<b>Continuous Collector Current</b>	<b>I<sub>c</sub></b>	<b>3</b>	<b>2.5</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>A</b>
Base Current	I <sub>B</sub>	500					mA
<b>Power Dissipation at T<sub>amb</sub>=25°C*</b>	<b>P<sub>tot</sub></b>	<b>625</b>					<b>mW</b>
Operating and Storage Temperature Range	T <sub>j</sub> ; T <sub>stg</sub>	-55 to +150					°C

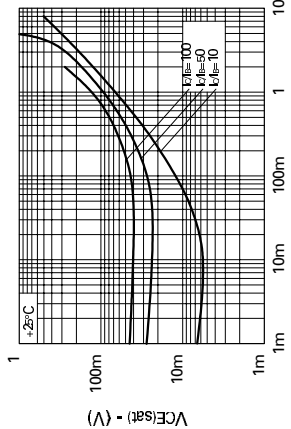
\* Maximum power dissipation is calculated assuming that the device is mounted on a ceramic substrate measuring 15x15x0.6mm

\*\* Measured under pulsed conditions. Pulse width=300μs. Duty cycle ≤ 2%  
Spice parameter data is available upon request for these devices



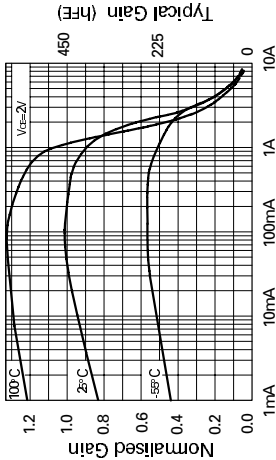
# FMMT619

## TYPICAL CHARACTERISTICS



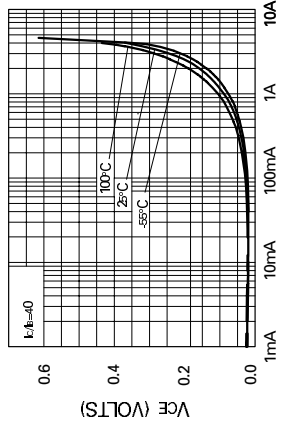
IC - Collector Current (A)

VCE(sat) v IC



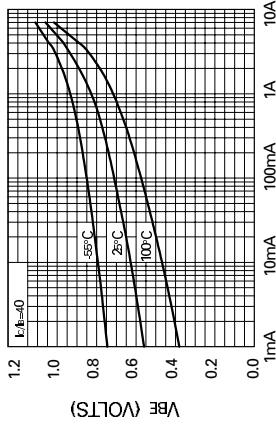
Collector Current

hFE vs IC



Collector Current

VCE(sat) vs IC



Collector Current

VBE(sat) vs IC

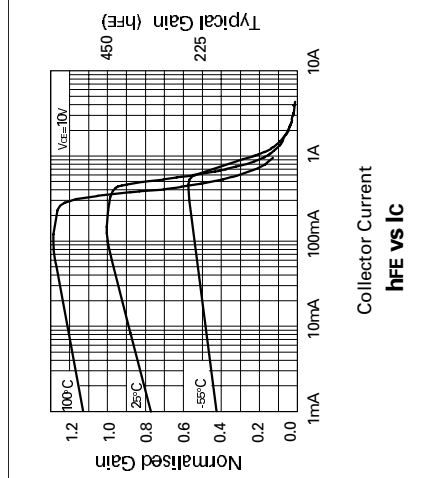
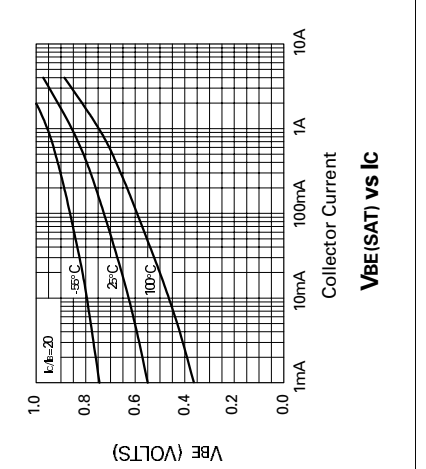
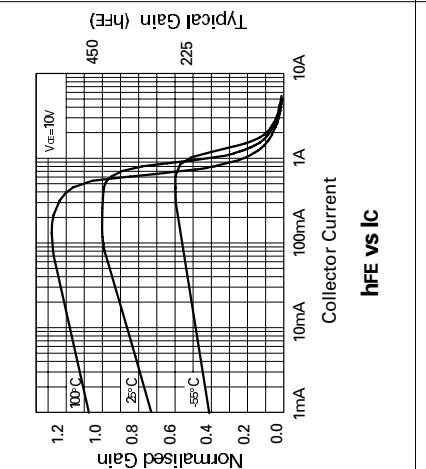
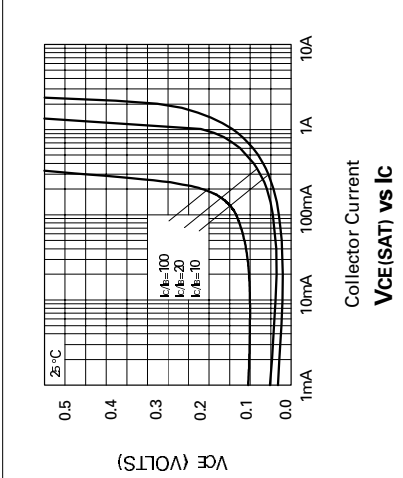
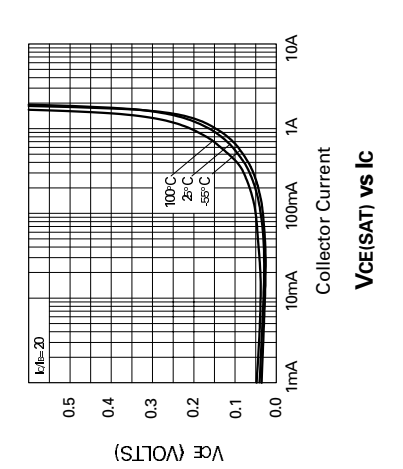
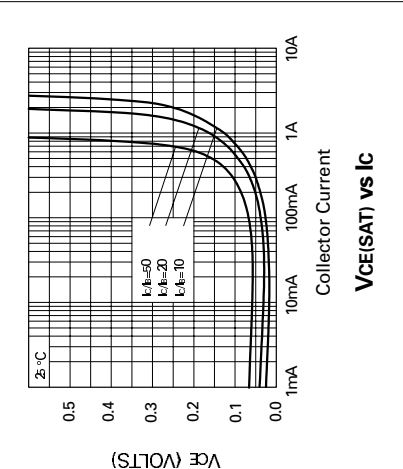
## ELECTRICAL CHARACTERISTICS (at T<sub>amb</sub>)

PARAMETER	SYMBOL	FMMT624	
		MIN.	MAX.
Collector-Base Breakdown Voltage	V <sub>BR(CBO)</sub>	125	250
Collector-Emitter Breakdown Voltage	V <sub>BR(CEO)</sub>	125	160
Emitter-Base Breakdown Voltage	V <sub>BR(EB0)</sub>	5	8.3
Collector Cut-Off Current	I <sub>CB0</sub>		100
Emitter Cut-Off Current	I <sub>EB0</sub>		100
Collector-Emitter Cut-Off Current	I <sub>CE0</sub>		100
Collector-Emitter Saturation Voltage	V <sub>CE(SAT)</sub>		26 70 160 220 250
Base-Emitter Saturation Voltage	V <sub>BE(SAT)</sub>		0.85 1.0
Base-Emitter Turn-On Voltage	V <sub>BE(ON)</sub>		0.7 1.0
Static Forward Current Transfer Ratio	h <sub>FE</sub>	200 300 100	400 450 140 18
Transition Frequency	f <sub>T</sub>	100	155
Output Capacitance	C <sub>OB0</sub>		7

# FM6MT624

## TYPICAL CHARACTERISTICS

## TYPICAL CHARA

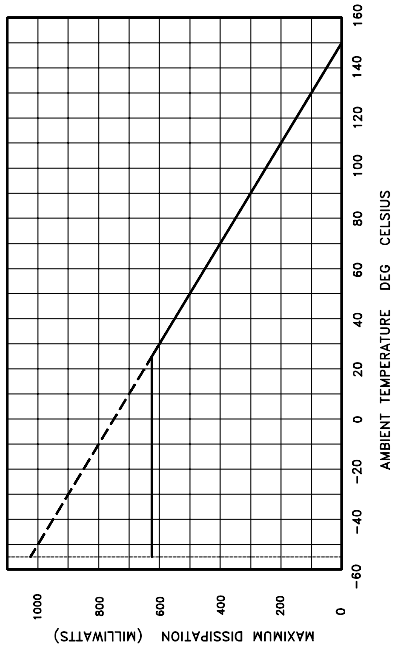


FMMT617 FMMT624  
FMMT618 FMMT625  
FMMT619

## SuperSOT Series

FMMT717 FMMT722  
FMMT718 FMMT723  
FMMT720

### HERMAL CHARACTERISTICS AND DERATING INFORMATION



### DERATING CURVE

