

# SOT23 PNP SILICON PLANAR HIGH VOLTAGE TRANSISTOR

ISSUE 2 - NOVEMBER 1995

## FEATURES

- \* 350 Volt  $V_{CEO}$
- \* Gain of 15 at  $I_C = 100\text{mA}$

## APPLICATIONS

- \* SUITABLE FOR AMPLIFIER AND SWITCHING PRODUCTS

COMPLEMENTARY TYPE FMMT6517  
PARTMARKING DETAIL - 520

## ABSOLUTE MAXIMUM RATINGS.

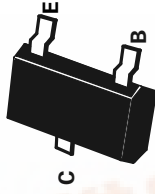
PARAMETER	SYMBOL	MAX.	UNIT	CONDITIONS.
Collector-Base Voltage	$V_{CBO}$	-350	V	$I_C = 100\mu\text{A}, I_E = 0$
Collector-Emitter Voltage	$V_{CEO}$	-350	V	$I_C = 1\text{mA}, I_B = 0^*$
Emitter-Base Voltage	$V_{EBO}$	-5	V	$I_E = 10\mu\text{A}, I_C = 0$
Continuous Collector Current	$I_C$	-500	mA	$V_{CB} = 250\text{V}, I_E = 0$
Power Dissipation at $T_{amb} = 25^\circ\text{C}$	$P_{tot}$	330	mW	$V_{EB} = -3\text{V}, I_C = 0$
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 to +150	$^\circ\text{C}$	

## ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^\circ\text{C}$ unless otherwise stated).

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Breakdown Voltages	$V_{(BR)CBO}$	-350		V	$I_C = 100\mu\text{A}, I_E = 0$
	$V_{(BR)CEO}$	-350		V	$I_C = 1\text{mA}, I_B = 0^*$
	$V_{(BR)EBO}$	-5		V	$I_E = 10\mu\text{A}, I_C = 0$
Cut-Off Currents	$I_{CBO}$		-50	nA	$V_{CB} = 250\text{V}, I_E = 0$
	$I_{EBO}$		-50	nA	$V_{EB} = -3\text{V}, I_C = 0$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		-0.3	V	$I_C = 10\text{mA}, I_B = 1\text{mA}^*$
			-0.35	V	$I_C = 20\text{mA}, I_B = 2\text{mA}^*$
			-0.5	V	$I_C = 30\text{mA}, I_B = 3\text{mA}^*$
			-1.0	V	$I_C = 50\text{mA}, I_B = 5\text{mA}^*$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		-0.75	V	$I_C = 10\text{mA}, I_B = 1\text{mA}^*$
			-0.85	V	$I_C = 20\text{mA}, I_B = 2\text{mA}^*$
			-0.90	V	$I_C = 30\text{mA}, I_B = 3\text{mA}^*$
Base-Emitter Turn-On Voltage	$V_{BE(on)}$		-2.0	V	$I_C = 100\text{mA}, V_{CE} = 10\text{V}^*$
Static Forward Current Transfer Ratio	$h_{FE}$	20			$I_C = 1\text{mA}, V_{CE} = 10\text{V}$
		30			$I_C = 10\text{mA}, V_{CE} = 10\text{V}^*$
		30			$I_C = 30\text{mA}, V_{CE} = 10\text{V}^*$
		20			$I_C = 50\text{mA}, V_{CE} = 10\text{V}^*$
		15			$I_C = 100\text{mA}, V_{CE} = 10\text{V}^*$
Output Capacitance	$C_{obbo}$		6	pF	$V_{CB} = 20\text{V}, f = 1\text{MHz}$
Transition Frequency	$f_T$		50	MHz	$I_C = 10\text{mA}, V_{CE} = 20\text{V}, f = 20\text{MHz}$

\*Measured under pulsed conditions. Pulse width=300 $\mu\text{s}$ . Duty cycle  $\leq 2\%$

FMMT6520



SOT23

查询FMMT6520供应商

捷多邦, 专业PCB打样工厂, 24小时加急出货

