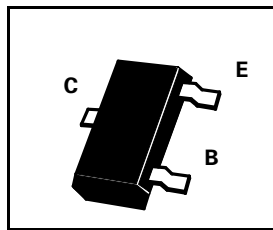


# SOT23 PNP SILICON PLANAR SMALL SIGNAL TRANSISTOR

## FMMT5087

PARTMARKING DETAIL - FMMT5087 - 2m  
FMMT5087R - 3m

COMPLEMENTARY TYPE - FMMT5088



### ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	$V_{CBO}$	-50	V
Collector-Emitter Voltage	$V_{CEO}$	-50	V
Emitter-Base Voltage	$V_{EBO}$	-3	V
Continuous Collector Current	$I_C$	-100	mA
Power Dissipation at $T_{amb}=25^{\circ}C$	$P_{tot}$	330	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.
Collector-Base Cut-Off Current	$I_{CBO}$		-10 -50	nA $\mu A$	$V_{CB}=-10V, I_E=0$ $V_{CB}=-35V, I_E=0$
Emitter-Base Current	$I_{EBO}$		-50	nA	$V_{EB}=-3V, I_C=0$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		-300	mV	$I_C=-10mA, I_B=-1mA$
Base-Emitter ON Voltage	$V_{BE(on)}$		-850	mV	$I_C=-1mA, V_{CE}=-5V$
Static Forward Current Transfer Ratio	$h_{FE}$	250 250 250	800		$I_C=-100\mu A, V_{CE}=-5V$ $I_C=-1mA, V_{CE}=-5V$ $I_C=-10mA, V_{CE}=-5V^*$
Transition Frequency	$f_T$	40		MHz	$I_C=-500\mu A, V_{CE}=-5V, f=20MHz$
Small Signal Current Transfer Ratio	$h_{fe}$	250	900		$I_C=-1mA, V_{CE}=-5V, f=1KHz$
Noise Figure	N		2	dB	$I_C=200\mu A, V_{CE}=-5V, R_g=2K\Omega$ $f=30Hz$ to $15KHz$ at 2dB points
Output Capacitance	$C_{obo}$		4	pF	$V_{CB}=-5V, f=140MHz, I_E=0$

\*Measured under pulsed conditions. Pulse width=300 $\mu s$ . Duty cycle  $\leq 2\%$   
Spice parameter data is available upon request for this device