

SOT23 NPN SILICON PLANAR DARLINGTON TRANSISTORS

ISSUE 4 - DECEMBER 1996

COMPLEMENTARY TYPES - FMMTA12 - NONE
FMMTA13 - FMMTA63
FMMTA14 - FMMTA64

PARTMARKING DETAILS - FMMTA12 - 3W
FMMTA13 - 1M
FMMTA14 - 1N

ABSOLUTE MAXIMUM RATINGS.

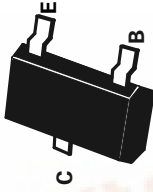
PARAMETER	SYMBOL	FMMTA12	FMMTA13/14	UNIT
Collector-Base Voltage	V_{CBO}		40	V
Collector-Emitter Voltage	V_{CEO}		40	V
Collector-Emitter Voltage	V_{CES}	20	40	V
Emitter-Base Voltage	V_{EBO}	10		V
Continuous Collector Current	I_C	300		mA
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	330		mW
Operating 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-Emitter Breakdown Voltage	$V_{(BR)CES}$	20		V	$I_C=100\mu A, I_B=0^*$
		40		V	$I_C=100\mu A, I_B=0^*$
Collector Cut-Off Current	I_{CES}		100	nA	$V_{CB}=15V, V_{BE}=0$
Collector Cut-Off Current	I_{CBO}		100	nA	$V_{CB}=15V, I_E=0$
			100	nA	$V_{CB}=30V, I_E=0$
Emitter Cut-Off Current	I_{EBO}		100	nA	$V_{EB}=10V, I_C=0$
Static Forward Current Transfer Ratio	h_{FE}	20K			$I_C=10mA, V_{CE}=5V^*$
		5K			$I_C=10mA, V_{CE}=5V^*$
		10K			$I_C=100mA, V_{CE}=5V^*$
		10K			$I_C=10mA, V_{CE}=5V^*$
		20K			$I_C=100mA, V_{CE}=5V^*$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		1.0	V	$I_C=10mA, I_B=0.1mA$
			0.9	V	$I_C=100mA, I_B=0.1mA$
Base-Emitter On Voltage	$V_{BE(on)}$		1.4	V	$I_C=10mA, V_{CE}=5V^*$
			2.0	V	$I_C=100mA, V_{CE}=5V^*$

*Measured under pulsed conditions. Pulse width = 300 μ s. Duty cycle \leq 2%
Spice parameter data is available upon request for these devices
For typical graphs see FMMT38A datasheet

FMMTA12
FMMTA13
FMMTA14



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