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SOT89 PNP SILICON POWER (SWITCHING) TRANSISTOR

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捷多邦，专业PCB打样工厂

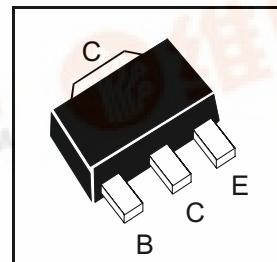
,24小时加急出货

FCX789A

FEATURES

- * **2W POWER DISSIPATION**
- * 8A Peak Pulse Current
- * Excellent H_{FE} Characteristics up to 10 Amps
- * Low Saturation Voltage E.g. 10mv Typ.

Complimentary Type - FCX688B
Partmarking Detail - 789



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	-25	V
Collector-Emitter Voltage	V_{CEO}	-25	V
Emitter-Base Voltage	V_{EBO}	-5	V
Peak Pulse Current **	I_{CM}	-8	A
Continuous Collector Current	I_C	-3	A
Power Dissipation at $T_{amb}=25^\circ C$	P_{tot}	1 † 2 ‡	W W
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +150	°C

† recommended P_{tot} calculated using FR4 measuring 15x15x0.6mm

‡ Maximum power dissipation is calculated assuming that the device is mounted on FR4 substrate measuring 40x40x0.6mm and using comparable measurement methods adopted by other suppliers.

**Measured under pulsed conditions. Pulse width=300μs. Duty cycle ≤ 2%

Spice parameter data is available upon request for these devices

Refer to the handling instructions when soldering surface mount components.

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

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-25			V	$I_C=-100\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-25			V	$I_C=-10mA^*$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	$I_E=-100\mu A$
Collector Cut-Off Current	I_{CBO}			-0.1	μA	$V_{CB}=-15V$
Emitter Cut-Off Current	I_{EBO}			-0.1	μA	$V_{EB}=-4V$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-190 -400 -320	mV mV mV	$I_C=1A, I_B=10mA^*$ $I_C=2A, I_B=20mA^*$ $I_C=3A, I_B=100mA^*$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			-0.9	V	$I_C=1A, I_B=10mA^*$
Base-Emitter Turn-On Voltage	$V_{BE(on)}$		-0.8		V	$I_C=1A, V_{CE}=-2V^*$
Static Forward Current Transfer Ratio	h_{FE}	300 230 180 75		800		$I_C=10mA, V_{CE}=-2V$ $I_C=1A, V_{CE}=-2V^*$ $I_C=2A, V_{CE}=-2V^*$ $I_C=6A, V_{CE}=-2V^*$
Transition Frequency	f_T	100			MHz	$I_C=50mA, V_{CE}=-5V$ $f=50MHz$
Input Capacitance	C_{ibo}		225		pF	$V_{EB}=-0.5V, f=1MHz$
Output Capacitance	C_{obo}		25		pF	$V_{CB}=-10V, f=1MHz$
Switching Times	t_{on} t_{off}		35 400		ns ns	$I_C=500mA, I_B1=50mA$ $I_B2=50mA, V_{CC}=-10V$

*Measured under pulsed conditions. Pulse width=300μs. Duty cycle ≤2%

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TYPICAL CHARACTERISTICS

