

# SOT89 NPN SILICON PLANAR HIGH VOLTAGE TRANSISTOR

**FCX495**

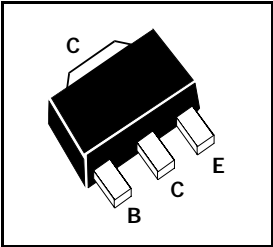
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## FEATURES

- \* 150 Volt  $V_{CEO}$
- \* 1 Amp continuous current

PARTMARKING DETAIL – N95



## ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	$V_{CBO}$	170	V
Collector-Emitter Voltage	$V_{CEO}$	150	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Continuous Collector Current	$I_C$	1	A
Peak Pulse Current	$I_{CM}$	2	A
Base Current	$I_B$	200	mA
Power Dissipation at $T_{amb}=25^{\circ}C$	$P_{tot}$	1	W
Operating and Storage Temperature Range	$T_j; T_{stg}$	-65 to +150	$^{\circ}C$

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

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Breakdown Voltages	$V_{(BR)CBO}$	170		V	$I_C=100\mu A$
	$V_{CEO(sus)}$	150		V	$I_C=10mA^*$
	$V_{(BR)EBO}$	5		V	$I_E=100\mu A$
Collector Cut-Off Currents	$I_{CBO} I_{CES}$		100	nA	$V_{CB}=150V, V_{CE}=150V$
Emitter Cut-Off Current	$I_{EBO}$		100	nA	$V_{EB}=4V$
Emitter Saturation Voltages	$V_{CE(sat)}$		0.2	V	$I_C=250mA, I_B=25mA^*$
			0.3	V	$I_C=500mA, I_B=50mA^*$
	$V_{BE(sat)}$		1.0	V	$I_C=500mA, I_B=50mA^*$
Base-Emitter Turn On Voltage	$V_{BE(on)}$		1.0	V	$I_C=500mA, V_{CE}=10V^*$
Static Forward Current Transfer Ratio	$h_{FE}$	100	300		$I_C=1mA, V_{CE}=10V$
		100			$I_C=250mA, V_{CE}=10V^*$
		50			$I_C=500mA, V_{CE}=10V^*$
		10			$I_C=1A, V_{CE}=10V^*$
Transition Frequency	$f_T$	100		MHz	$I_C=50mA, V_{CE}=10V$ $f=100MHz$
Collector-Base Breakdown Voltage	$C_{obo}$		10	pF	$V_{CB}=10V, f=1MHz$

\*Measured under pulsed conditions. Pulse width=300 $\mu s$ . Duty cycle  $\leq 2\%$   
For typical characteristics graphs see FMMT495 Datasheet



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