

**APPLICATION:** General Purpose Amplifier Applications.

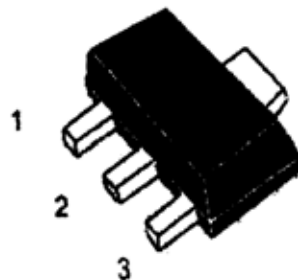
—PNP silicon—

Switching Applications.

**MAXIMUM RATINGS** (Ta=25°C)

SOT-89

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V <sub>CB0</sub>	-60	V
Collector-emitter voltage	V <sub>CE0</sub>	-60	V
Emitter-base voltage	V <sub>EB0</sub>	-5	V
Collector current	I <sub>C</sub>	-600	mA
Collector Power Dissipation	P <sub>C</sub>	350	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 55~150	°C



1.Base 2.Collector 3.Emitter

**ELECTRICAL CHARACTERISTICS**

(Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h <sub>FE1</sub>	100		300		V <sub>CE</sub> = -10V, I <sub>C</sub> = -150mA
	h <sub>FE2</sub>	50				V <sub>CE</sub> = -10V, I <sub>C</sub> = -500mA
Collector Cut-off Current	I <sub>CB0</sub>			-0.05	μA	V <sub>CB</sub> = -60V, I <sub>E</sub> =0
Emitter Cut-off Current	I <sub>EB0</sub>			-0.05	μA	V <sub>EB</sub> = -3V, I <sub>C</sub> =0
Collector-Base Breakdown Voltage	BV <sub>CB0</sub>	-60			V	I <sub>C</sub> = -0.01mA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	BV <sub>CE0</sub>	-60			V	I <sub>C</sub> = -10mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	BV <sub>EB0</sub>	-5			V	I <sub>E</sub> = -0.01mA, I <sub>C</sub> =0
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			-0.4	V	I <sub>C</sub> = -150mA, I <sub>B</sub> = -15mA
	V <sub>CE(sat)</sub>			-1.6	V	I <sub>C</sub> = -500mA, I <sub>B</sub> = -50mA
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>			-1.3	V	I <sub>C</sub> = -150mA, I <sub>B</sub> = -15mA
	V <sub>BE(sat)</sub>			-2.6	V	I <sub>C</sub> = -500mA, I <sub>B</sub> = -50mA
Gain bandwidth product	f <sub>T</sub>	200			MHz	I <sub>C</sub> = -50mA, V <sub>CE</sub> = -20V
Common Base Output Capacitance	C <sub>ob</sub>			8	PF	V <sub>CB</sub> = -10V, I <sub>E</sub> =0, f = 1MHz
Turn on Time	ton			45	ns	V <sub>CC</sub> = -30V, I <sub>C</sub> = -150mA, I <sub>B1</sub> = -15mA
Turn off Time	toff			100	ns	V <sub>CC</sub> = -6V, I <sub>C</sub> = -150mA, I <sub>B1</sub> =I <sub>B2</sub> = -15mA

**h<sub>FE</sub> Classification And Marking**

Print Mark

Classification

h<sub>FE1</sub>

100~300