

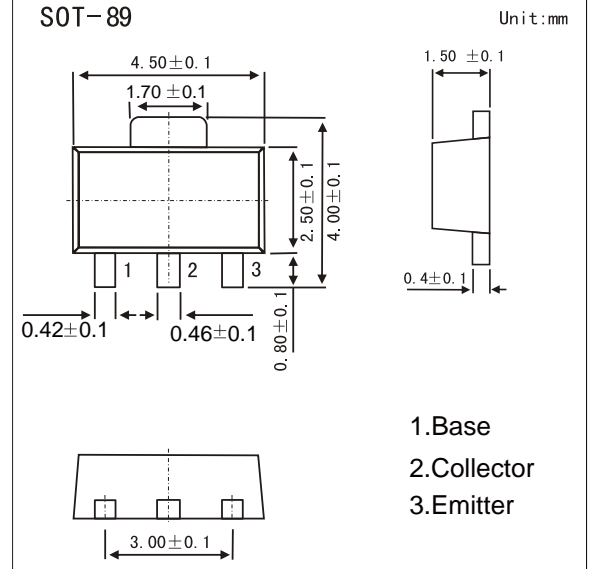
SOT-89 Plastic-Encapsulate Transistors

**FEATURES**

- PNP transistor High current output up to 3A
- Low Saturation Voltage
- PNP Transistors

**MECHANICAL DATA**

- Case style:SOT-89 molded plastic
- Mounting position:any



**MAXIMUM RATINGS AND CHARACTERISTICS**

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V <sub>CB0</sub>	-40	V
Collector to Emitter Voltage	V <sub>CE0</sub>	-30	V
Emitter to Base Voltage	V <sub>EB0</sub>	-6	V
Collector Current to Continuous	I <sub>c</sub>	-3	A
Collector Dissipation	P <sub>c</sub>	0.5	W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-55 to 150	°C

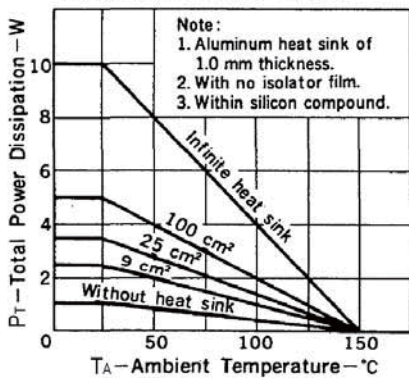
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V <sub>CB0</sub>	I <sub>c</sub> =-100uA , I <sub>E</sub> =0	-40			V
Collector-emitter breakdown voltage	V <sub>CE0</sub>	I <sub>c</sub> = -10 mA , I <sub>B</sub> =0	-30			V
Emitter-base breakdown voltage	V <sub>EB0</sub>	I <sub>E</sub> = -100 uA , I <sub>c</sub> =0	-6			V
Collector cut-off current	I <sub>CB0</sub>	V <sub>CB</sub> =-40 V , I <sub>E</sub> =0			-1	μA
Emitter cut-off current	I <sub>EB0</sub>	V <sub>EB</sub> =-6V , I <sub>c</sub> =0			-1	μA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = -2V , I <sub>c</sub> = -1A	60		400	
		V <sub>CE</sub> =-2V , I <sub>c</sub> = -100mA	32			
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>c</sub> =-2A , I <sub>B</sub> =- 0.2A			-0.5	V
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>c</sub> =-2A , I <sub>B</sub> = -0.2A			-1.5	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> =-5 V , I <sub>c</sub> =-0.1mA, f = 10MHz	50			MHz

■ Classification of h<sub>FE</sub>(1)

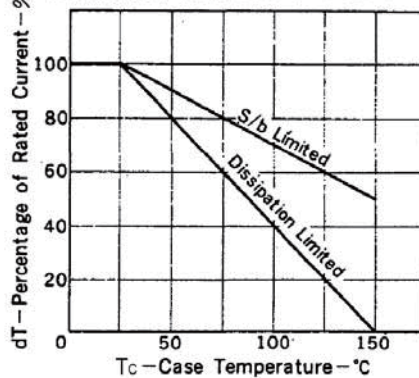
Marking	772*			
Range	R	Q	P	E
h <sub>FE</sub>	60~120	100~200	160~320	200~400

# RATINGS AND CHARACTERISTIC CURVES

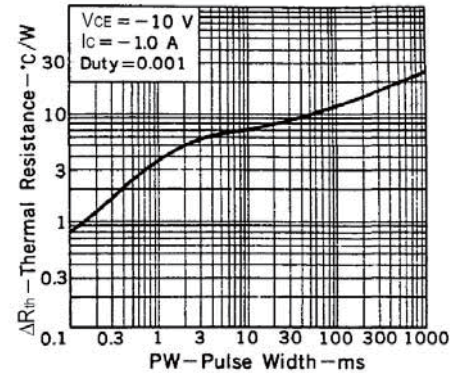
**TOTAL POWER DISSIPATION vs. AMBIENT TEMPERATURE**



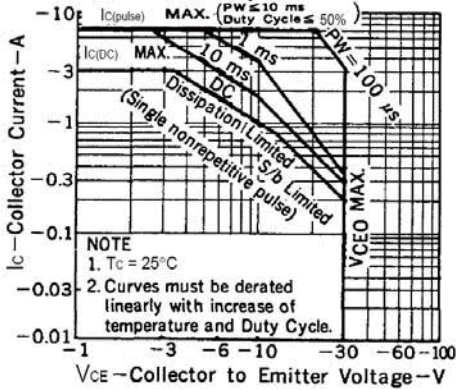
**DERATING CURVES FOR ALL TYPES**



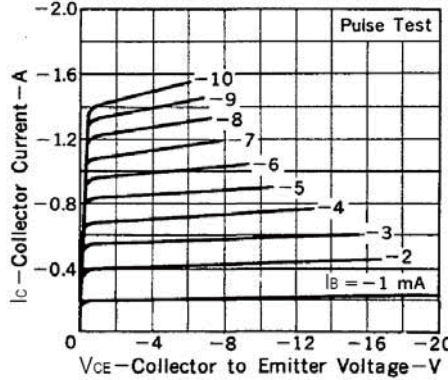
**THERMAL RESISTANCE vs. PULSE WIDTH**



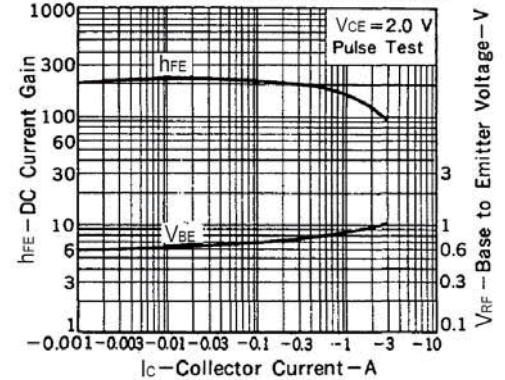
**SAFE OPERATING AREAS**



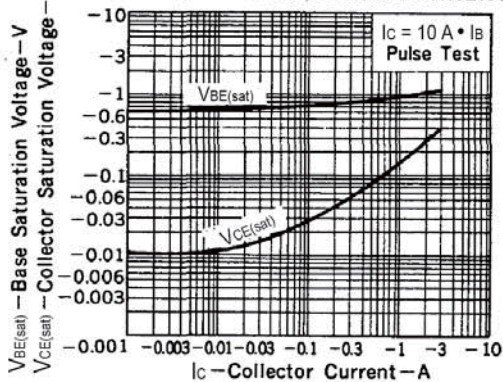
**COLLECTOR CURRENT vs. COLLECTOR TO EMITTER VOLTAGE**



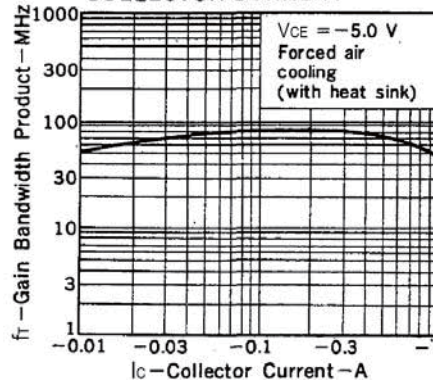
**DC CURRENT GAIN, BASE TO EMITTER VOLTAGE vs. COLLECTOR CURRENT**



**BASE AND COLLECTOR SATURATION VOLTAGE vs. COLLECTOR CURRENT**



**GAIN BANDWIDTH PRODUCT vs. COLLECTOR CURRENT**



**INPUT AND OUTPUT CAPACITANCE vs. REVERSE VOLTAGE**

