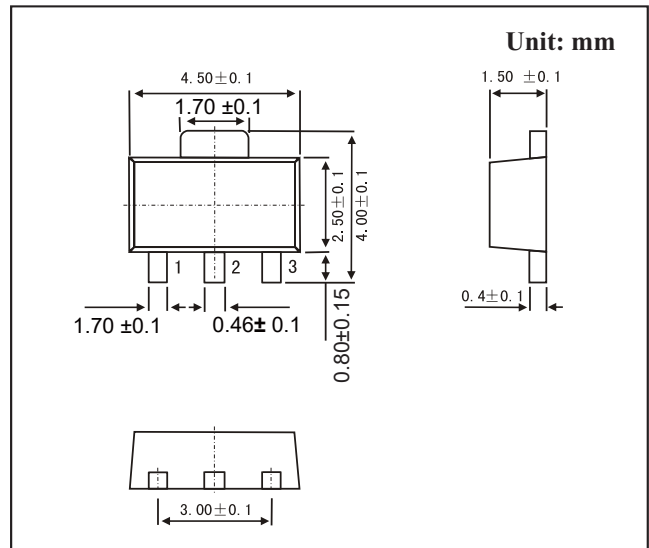


SOT-89 Plastic-Encapsulate Transistors
FEATURES

- Low Collector-Emitter Saturation Voltage
- High Breakdown Voltage
- TRANSISTOR (PNP)

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 _{CB0}	-40	V
Collector to Emitter Voltage	V _{CEO}	-30	V
Emitter to Base Voltage	V _{EBO}	-6	V
Collector Current to Continuous	I _C	-3	A
Collector Dissipation	P _c	0.5	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55 to 150	°C

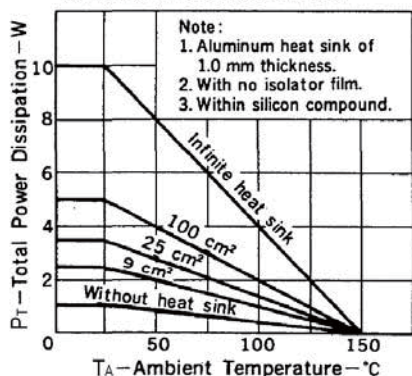
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{CB0}	I _c =-100μA, I _E =0	-40			V
Collector-emitter breakdown voltage	V _{CEO}	I _C = -10 mA, I _B =0	-30			V
Emitter-base breakdown voltage	V _{EBO}	I _E = -100 μA, I _C =0	-6			V
Collector cut-off current	I _{CBO}	V _{CB} =-40 V, I _E =0			-1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-6V, I _C =0			-1	μA
DC current gain	h _{FE}	V _{CE} = -2V, I _C = -1A	60		400	
		V _{CE} =-2V, I _C = -100mA	32			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-2A, I _B =-0.2A			-0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-2A, I _B = -0.2A			-1.5	V
Transition frequency	f _T	V _{CE} =-5 V, I _C =-0.1mA, f = 10MHz	50			MHz

Classification of h_{fe}(1)

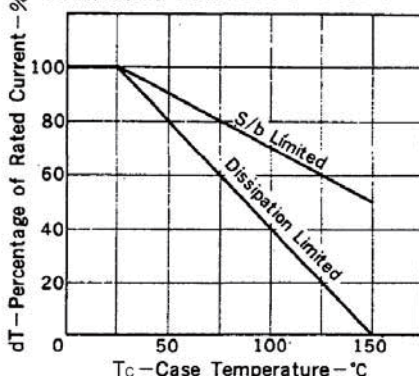
Marking	772*			
Range	R	Q	P	E
h _{FE}	60~120	100~200	160~320	200~400

RATINGS AND CHARACTERISTIC CURVES

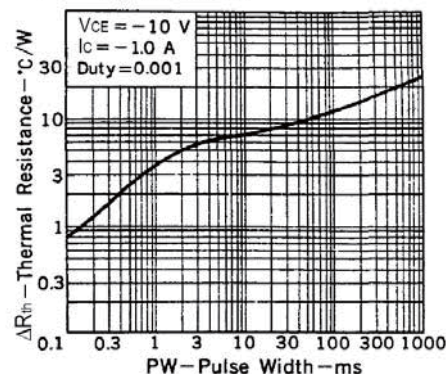
TOTAL POWER DISSIPATION vs. AMBIENT TEMPERATURE



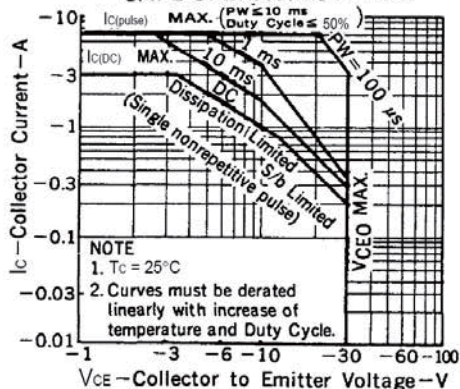
DERATING CURVES FOR ALL TYPES



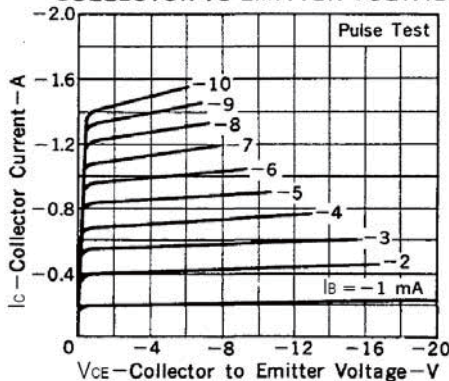
THERMAL RESISTANCE vs. PULSE WIDTH



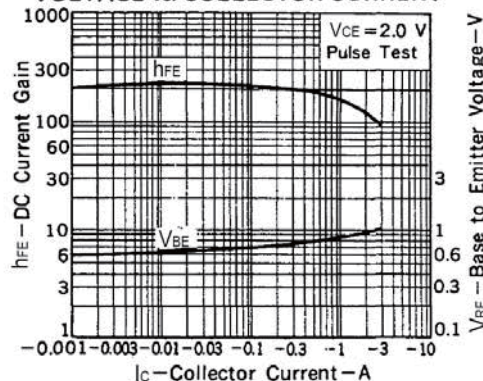
SAFE OPERATING AREAS



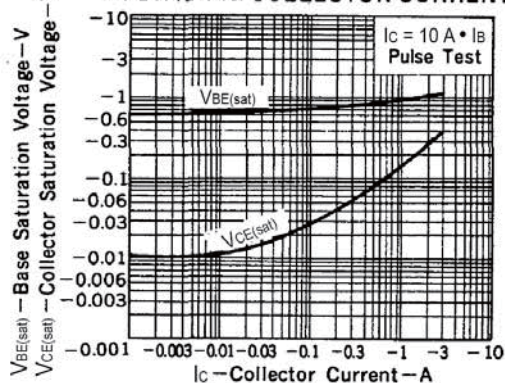
COLLECTOR CURRENT vs. COLLECTOR TO EMITTER VOLTAGE



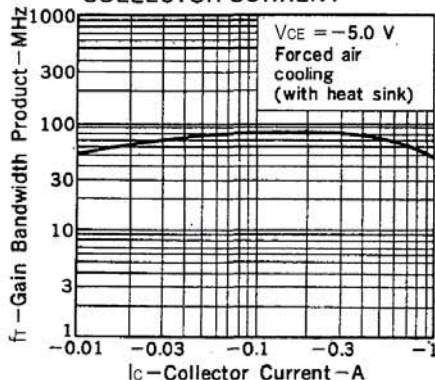
DC CURRENT GAIN, BASE TO EMITTER VOLTAGE vs. COLLECTOR CURRENT



BASE AND COLLECTOR SATURATION VOLTAGE vs. COLLECTOR CURRENT



GAIN BANDWIDTH PRODUCT vs. COLLECTOR CURRENT



INPUT AND OUTPUT CAPACITANCE vs. REVERSE VOLTAGE

