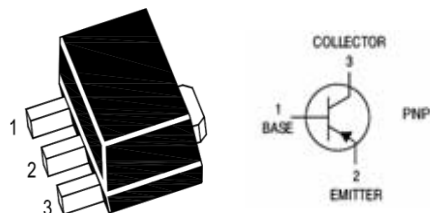


Silicon PNP Transistor

SOT-89

FEATURES

- * Low $V_{CE(sat)}$
- * Marking:1188



1.Base 2.Collector 3.Emitter

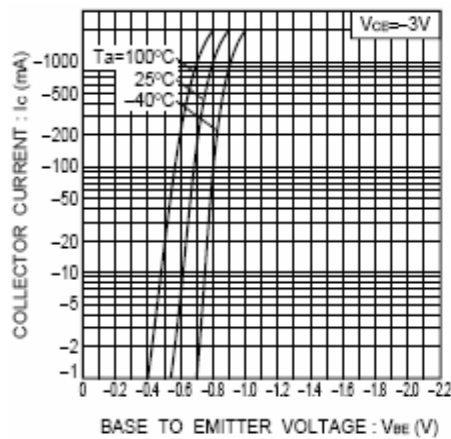
Maximum ratings($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	-40	V
Collector Emitter Voltage	V_{CEO}	-32	V
Emitter Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-2	A
Collector Power Dissipation	P_C	0.5	W
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-55~150	$^{\circ}\text{C}$

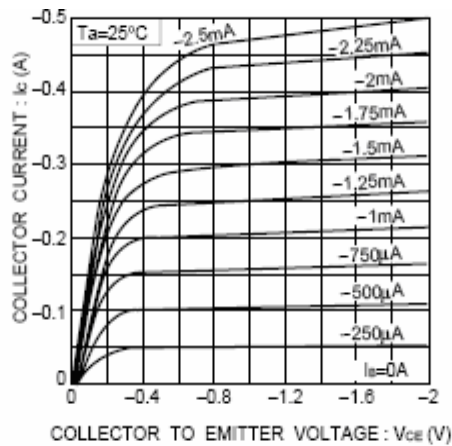
Electrical Characteristics ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter		Symbol	Test Condition	Min	Max	Unit
Collector-Base Breakdown Voltage		V_{CBO}	$I_C=-50\mu\text{A}$ $I_E=0$	-40		V
Collector-Emitter Breakdown Voltage		V_{CEO}	$I_C=-1\text{mA}$ $I_B=0$	-32		V
Emitter-Base Breakdown Voltage		V_{EBO}	$I_E=-50\mu\text{A}$ $I_C=0$	-5		V
Collector Cutoff Current		I_{CBO}	$V_{CB}=-20\text{V}$ $I_E=0$		-1	μA
Emitter Cutoff Current		I_{EBO}	$V_{EB}=-4\text{V}$ $I_C=0$		-1	μA
DC Current Gain	P	HFE1	$V_{CE}=-3\text{V}$ $I_C=-500\text{mA}$	82	180	
	Q			120	270	
	R			180	390	
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C=-2\text{A}$ $I_B=-500\text{mA}$		-0.8	V
Transition frequency		f_T	$V_{CE}=-5\text{V}$ $I_C=-500\text{mA}$	100		MHz
Collector output capacitance		C_{ob}	$V_{CB}=-10\text{V}$, $I_E=0$, $f=1\text{MHz}$	30		pF

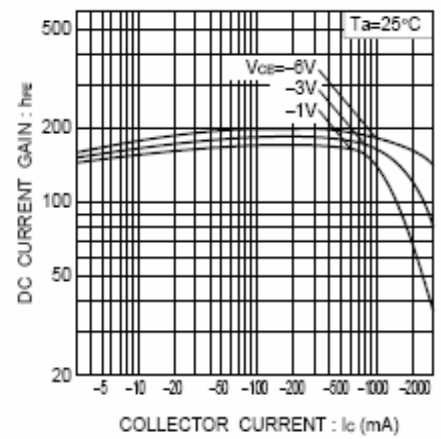
RATING AND CHARACTERISTICS CURVES (RT2P40S89)



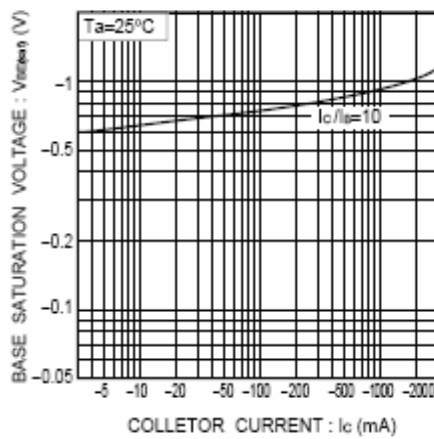
Grounded emitter propagation characteristics



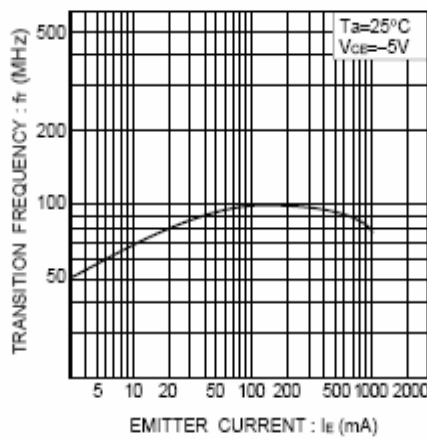
Grounded emitter output characteristics



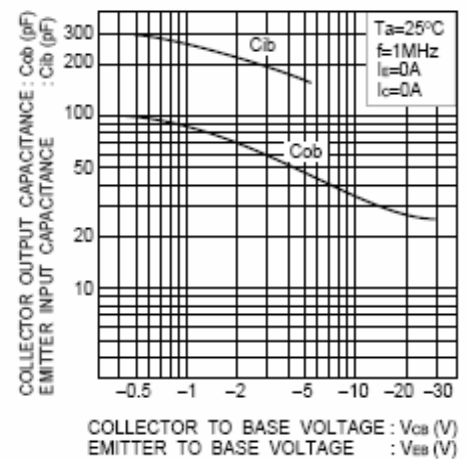
DC current gain vs. collector current (I)



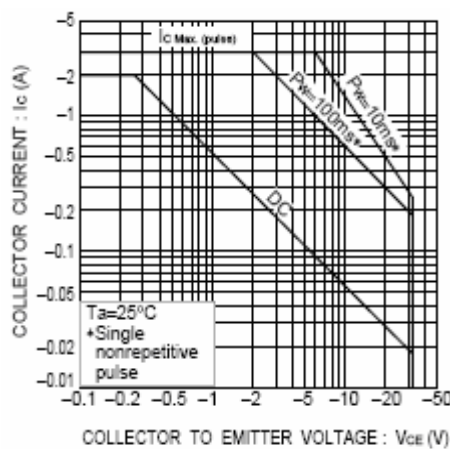
Base-emitter saturation voltage vs. collector current



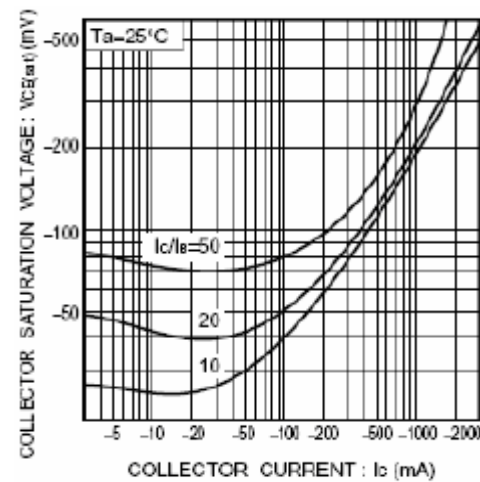
Gain bandwidth product vs. emitter current



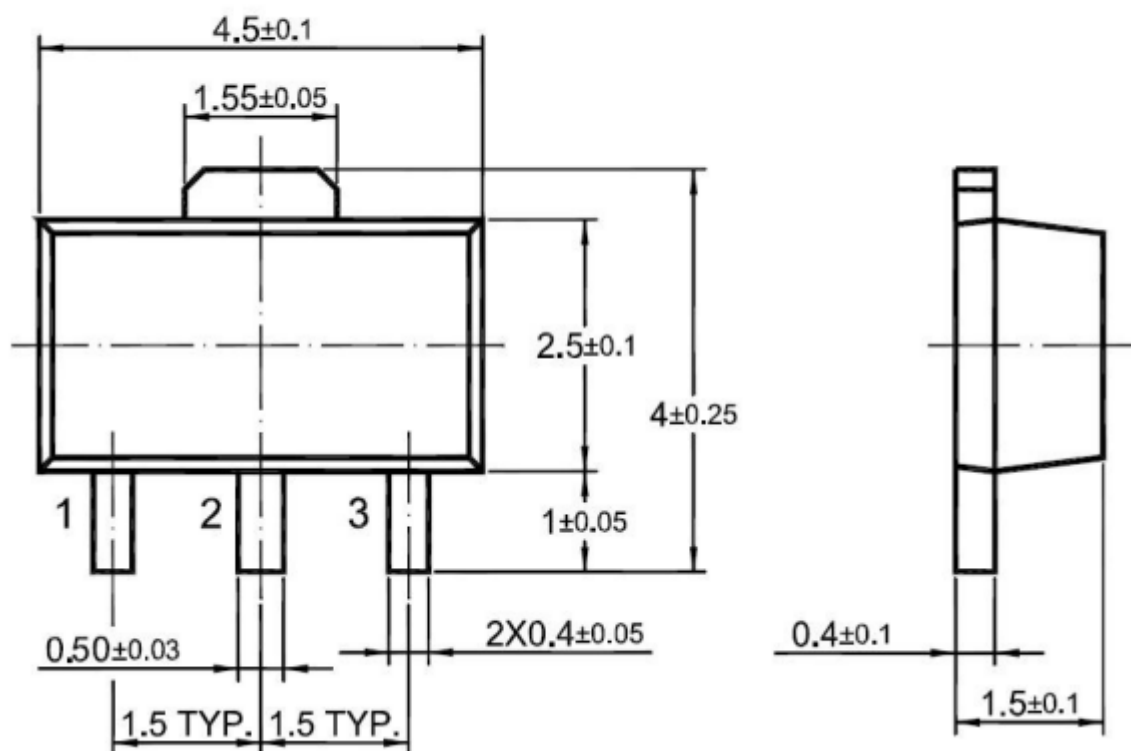
Collector output capacitance vs. collector-base voltage
Emitter input capacitance vs. emitter-base voltage



Collector-emitter saturation voltage vs. collector current (I)



SOT-89
Dimensions in mm



PACKAGE	PACKAGE CODE	EA PER REEL	EA PER CARTON
SOT-89	-T	1,000	45,000

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