WILLAS

RoHS COMPLIANT

SOT-89 Plastic-Encapsulate Transistors

2SA1797

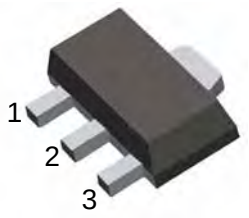
TRANSISTOR (PNP)

FEATURES

- Low saturation voltage
- Excellent DC current gain characteristics
- **Pb-Free package is available**
  RoHS product for packing code suffix "G"
  Halogen free product for packing code suffix "H"

SOT-89

1. BASE
2. COLLECTOR
3. EMITTER



MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-50	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current -Continuous	-2	A
P_C	Collector Power dissipation	500	mW
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55-150	℃

ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=-50μA, I_E=0	-50			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=-1mA, I_B=0	-50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=-50μA, I_C=0	-6			V
Collector cut-off current	I_{CBO}	V_{CB}=-50V, I_E=0			-0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=-5V, I_C=0			-0.1	μA
DC current gain	h_{FE}	V_{CE}=-2V, I_C=-500mA	82		270	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-1A, I_B=-50mA			-0.35	V
Transition frequency	f_T	V_{CE}=-2V, I_C=-0.5A, f=100MHz		200		MHz
Collector output capacitance	C_{ob}	V_{CB}=-10V, I_E=0, f=1MHz		36		pF

CLASSIFICATION OF h_{FE}

Rank	P	Q
Range	82-180	120-270
Marking	**AGP**	**AGQ**

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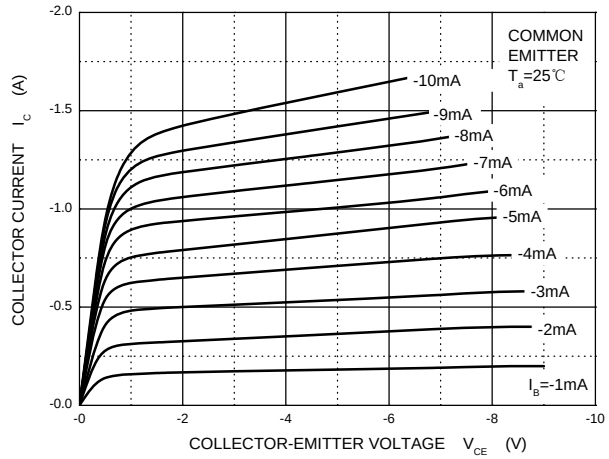
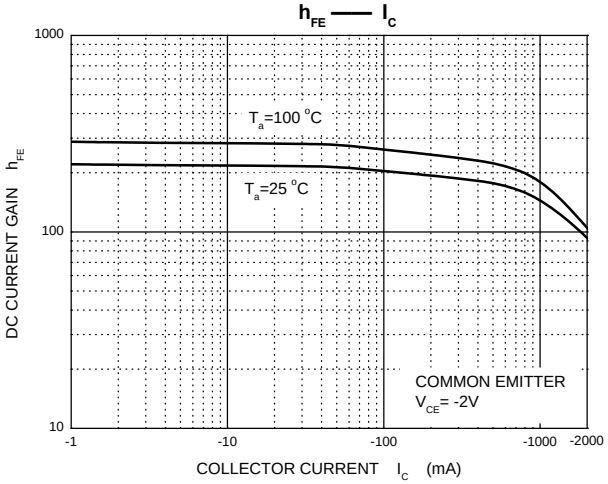
Typical Characteristics

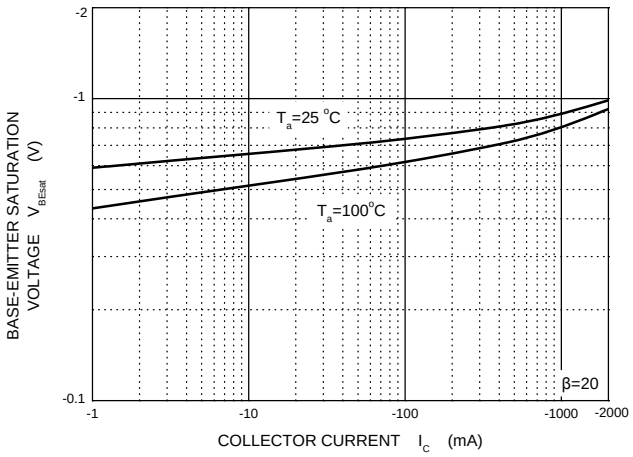
Static Characteristic



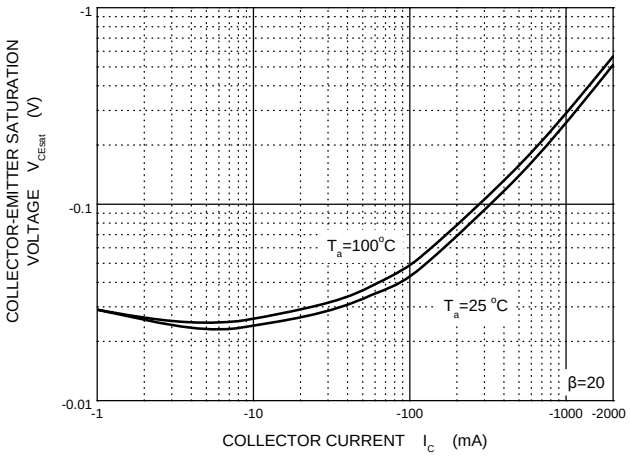
h_{FE} — I_C



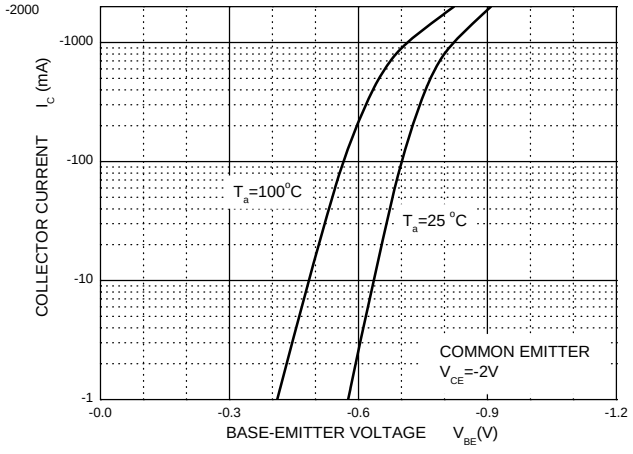
V_{BEsat} — I_C



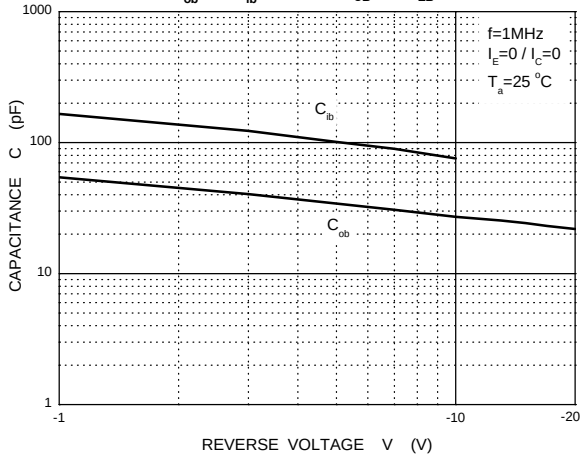
V_{CEsat} — I_C



V_{BE} — I_C



C_{ob} / C_{ib} — V_{CB} / V_{EB}



f_T — I_C

P_c — T_a

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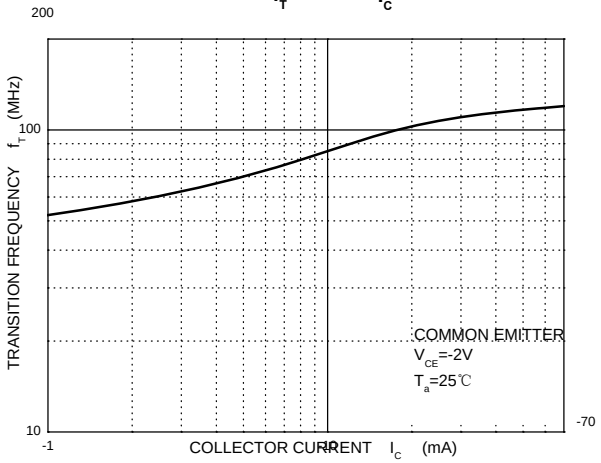
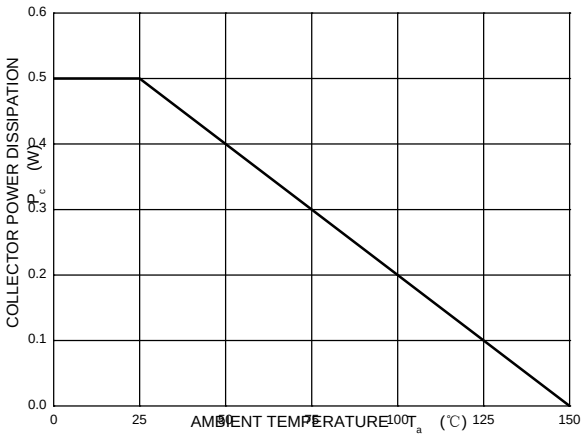
Typical Characteristics

f_T — I_C

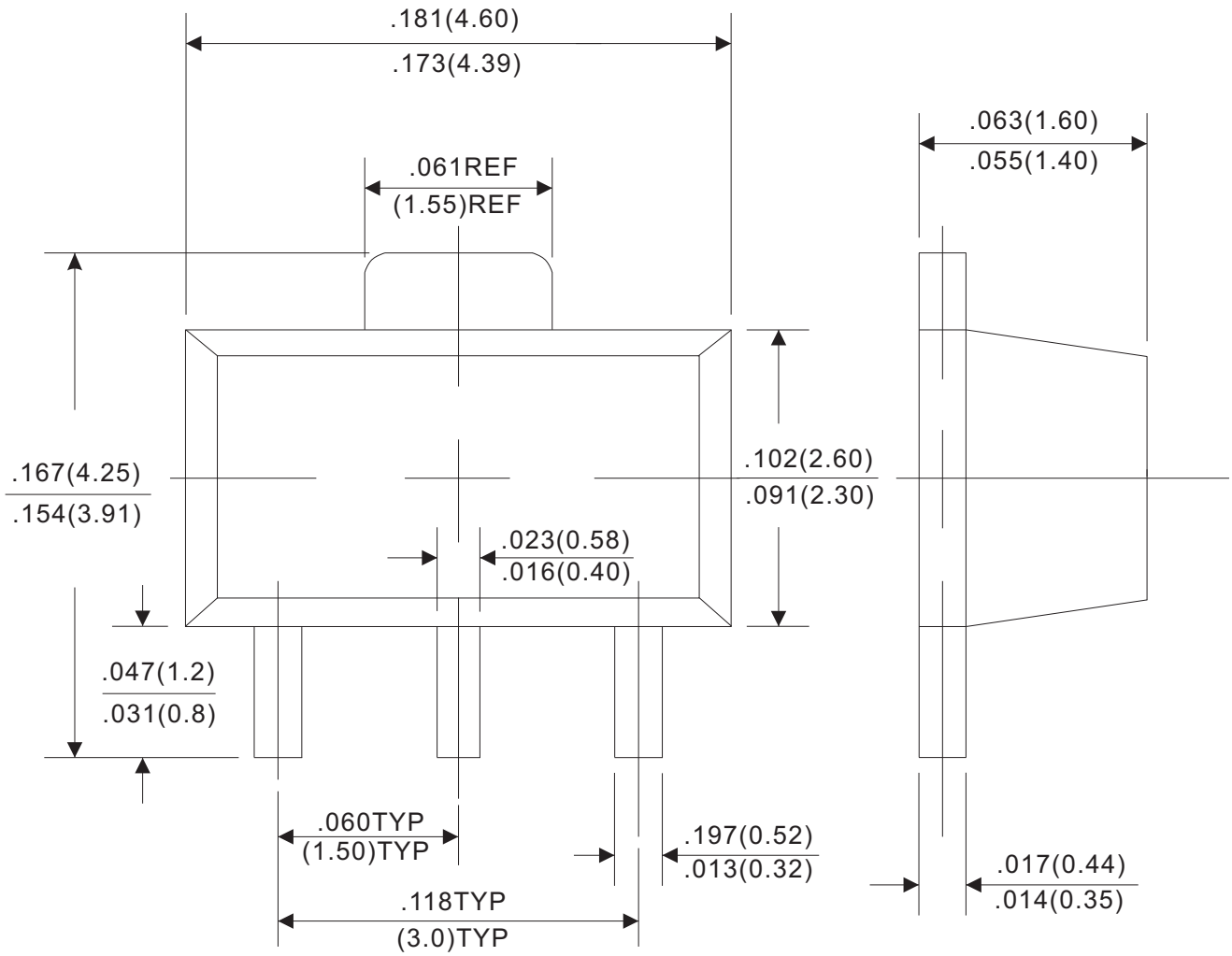


P_c — T_a



Outline Drawing

SOT-89



Dimensions in inches and (millimeters)

Rev.C