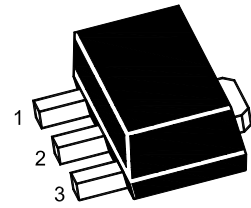


# 2SA1797U

## PNP Silicon Epitaxial Planar Transistor

Medium power transistor



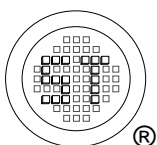
1.Base 2.Collector 3.Emitter  
SOT-89 Plastic Package

### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	50	V
Collector Emitter Voltage	$-V_{CEO}$	50	V
Emitter Base Voltage	$-V_{EBO}$	6	V
Collector Current	$-I_C$	2	A
Collector Current ( $P_w = 20$ ms)	$-I_{CP}$	3	A
Collector Power Dissipation	$P_C$	0.5	W
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

### Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit	
DC Current Gain at $-V_{CE} = 2$ V, $-I_C = 500$ mA Current Gain Group	P	$h_{FE}$	82	-	180	-
	Q	$h_{FE}$	120	-	270	-
	R	$h_{FE}$	180	-	390	-
Collector Base Cutoff Current at $-V_{CB} = 50$ V	$-I_{CBO}$	-	-	100	nA	
Emitter Base Cutoff Current at $-V_{EB} = 5$ V	$-I_{EBO}$	-	-	100	nA	
Collector Base Breakdown Voltage at $-I_C = 50$ $\mu\text{A}$	$-V_{(BR)CBO}$	50	-	-	V	
Collector Emitter Breakdown Voltage at $-I_C = 1$ mA	$-V_{(BR)CEO}$	50	-	-	V	
Emitter Base Breakdown Voltage at $-I_E = 50$ $\mu\text{A}$	$-V_{(BR)EBO}$	6	-	-	V	
Collector Emitter Saturation Voltage at $-I_C = 1$ A, $-I_B = 50$ mA	$-V_{CE(sat)}$	-	-	0.35	V	
Transition Frequency at $-V_{CE} = 2$ V, $-I_C = 500$ mA, $f = 100$ MHz	$f_T$	-	200	-	MHz	
Collector Output Capacitance at $-V_{CB} = 10$ V, $f = 1$ MHz	$C_{ob}$	-	36	-	pF	



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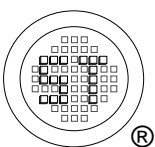
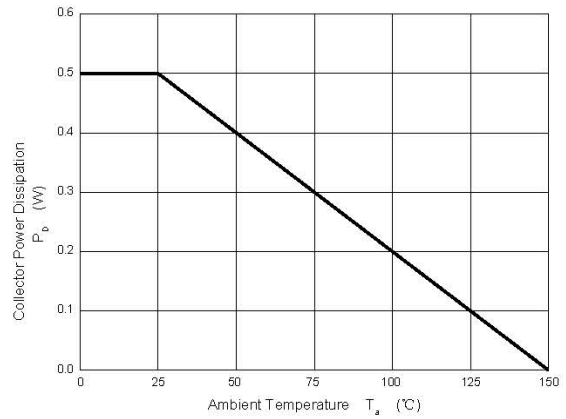
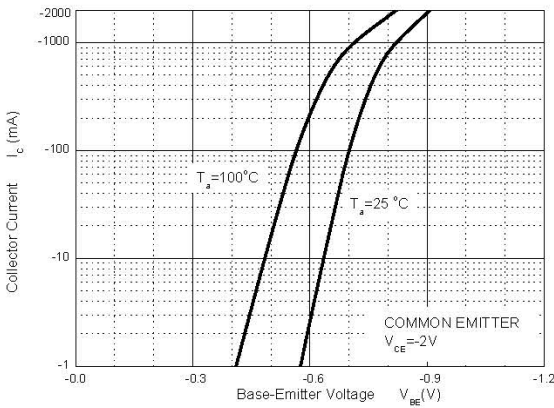
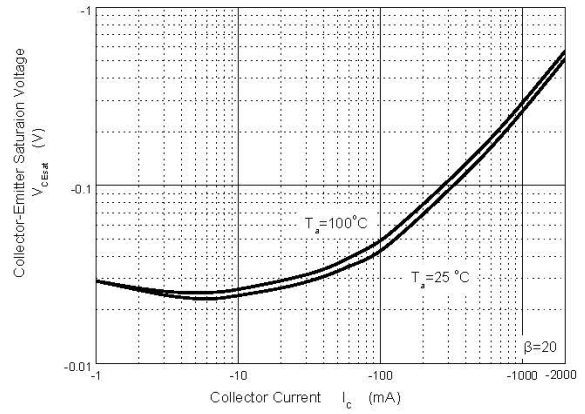
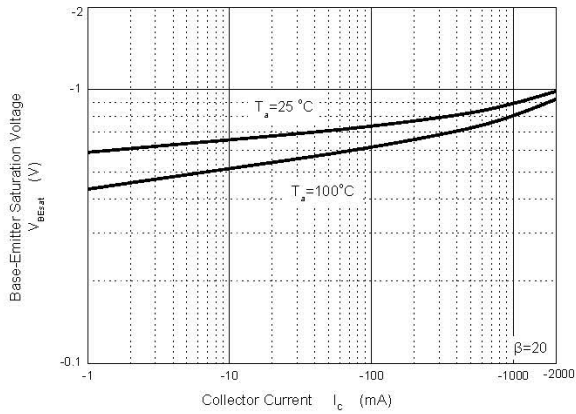
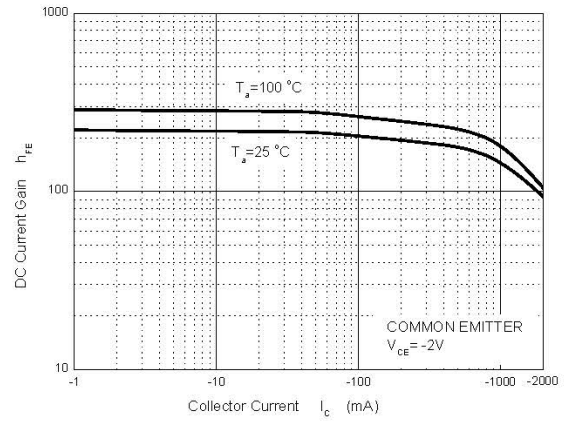
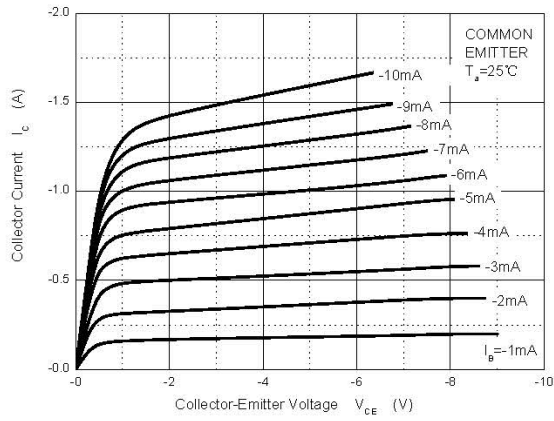
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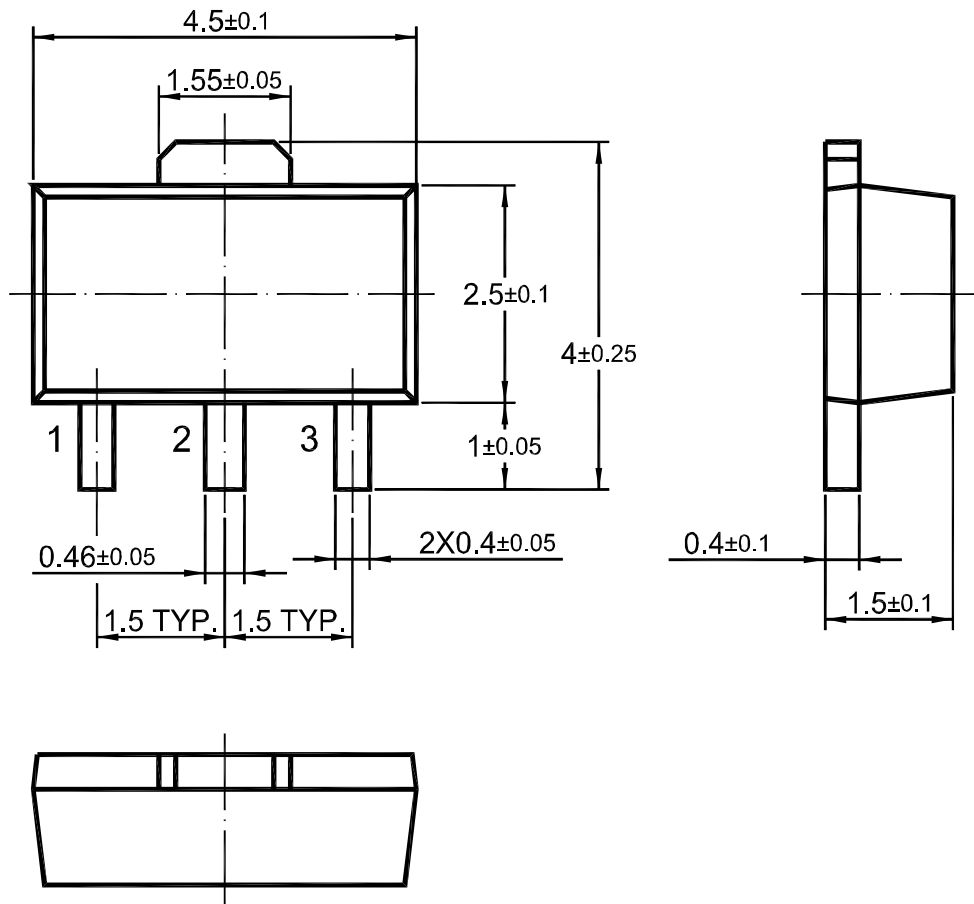


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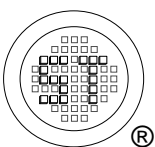


# 2SA1797U

## SOT-89 PACKAGE OUTLINE



Dimensions in mm



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