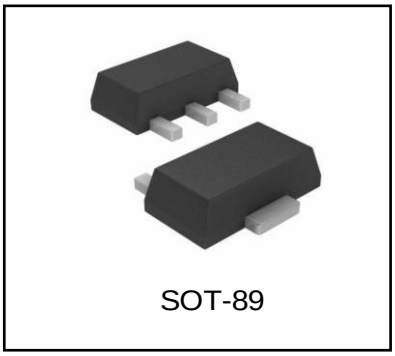
WT772

PNP Silicon Transistor

Features

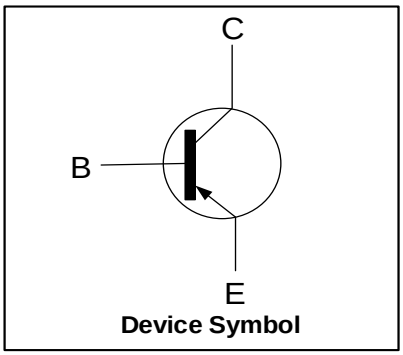
- Low Speed Switching



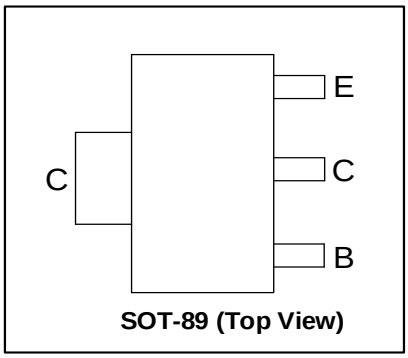
Mechanical Characteristics

- SOT-89 Package
- Marking : Making Code
- RoHS Compliant

Schematic & PIN Configuration



Device Symbol



SOT-89 (Top View)

Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	-40	V
Collector Emitter Voltage	V_{CEO}	-30	V
Emitter Base Voltage	V_{EBO}	-6	V
Collector Current	I_C	-3	A
Collector Power Dissipation	P_C	500	mW
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55 ~ 150	°C
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	250	°C/W

Electrical Characteristics (T_{amb}=25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	I_C = -100μA, I_E = 0	-40	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C = -10mA, I_B = 0	-30	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	I_E = -100μA, I_C = 0	-6	-	-	V
Collector Cut-off Current	I_{CBO}	V_{CB} = -40V, I_E = 0	-	-	-1	μA
Collector Cut-off Current	I_{CEO}	V_{CE} = -30V, I_B = 0	-	-	-10	μA
Emitter Cut-off Current	I_{EBO}	V_{EB} = -6V, I_C = 0	-	-	-1	μA
DC Current Gain	$h_{FE(1)}$	V_{CE} = -2V, I_C = -1A	200	-	400	-
	$h_{FE(2)}$	V_{CE} = -2V, I_C = -100mA	32	-	-	-
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C = -2A, I_B = -0.2A	-	-	-0.45	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	I_C = -2A, I_B = -0.2A	-	-	-1.50	V
Transition Frequency	f_T	V_{CE}= -5V,I_C= -0.1A,f=10MHz	50	-	-	MHz

Typical Characteristics

Figure 1.Static Characteristics

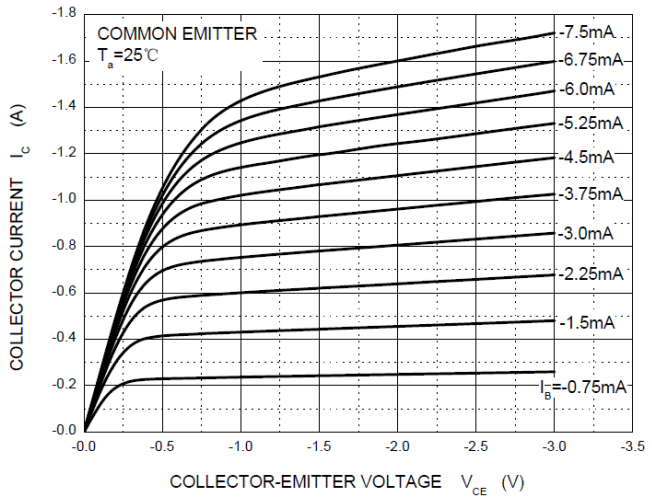


Figure 2. h_{FE} vs. I_C

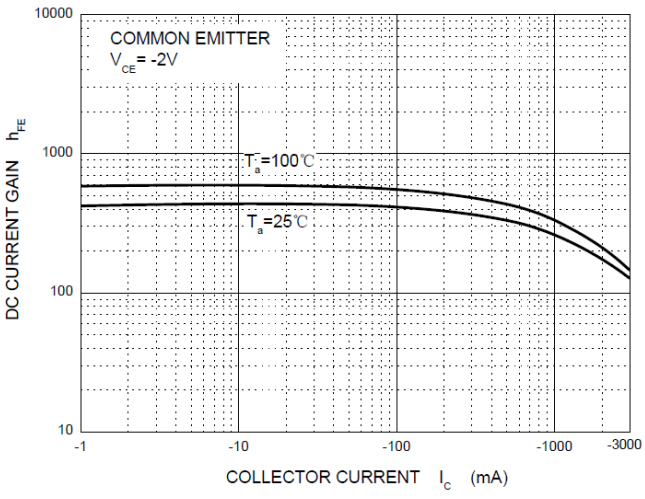


Figure 3. $V_{CE(sat)}$ vs. I_C

Figure 4. $V_{BE(sat)}$ vs. I_C

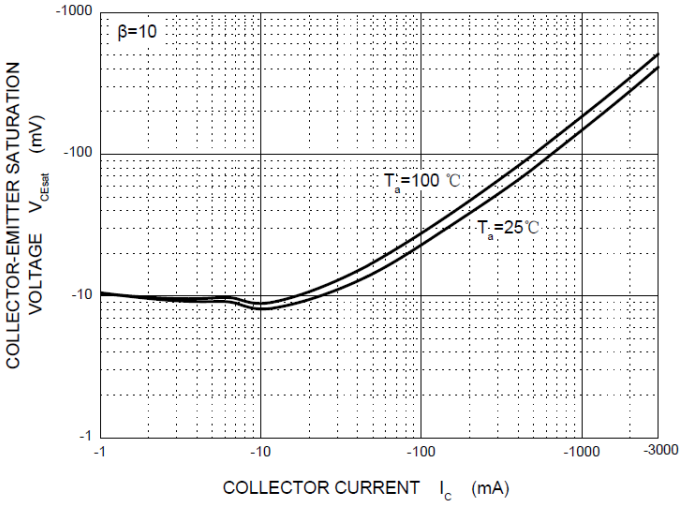


Figure 5. I_C vs. V_{BE}

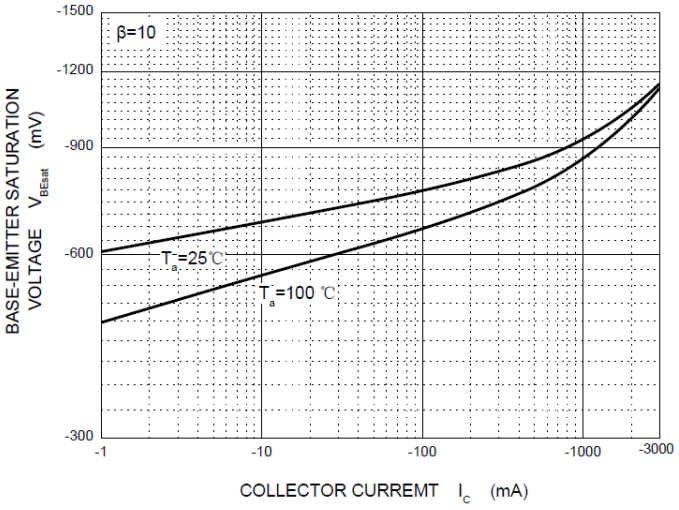
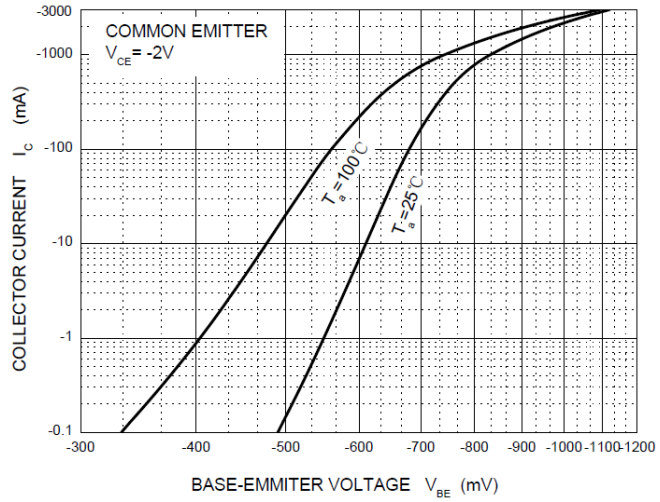


Figure 6. f_T vs. I_C



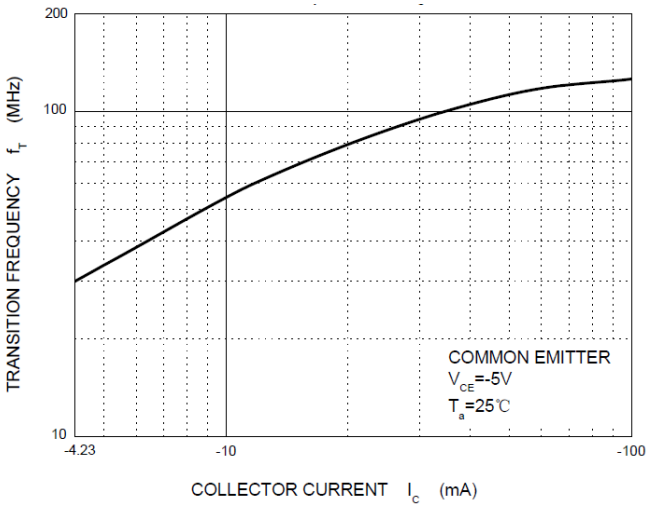
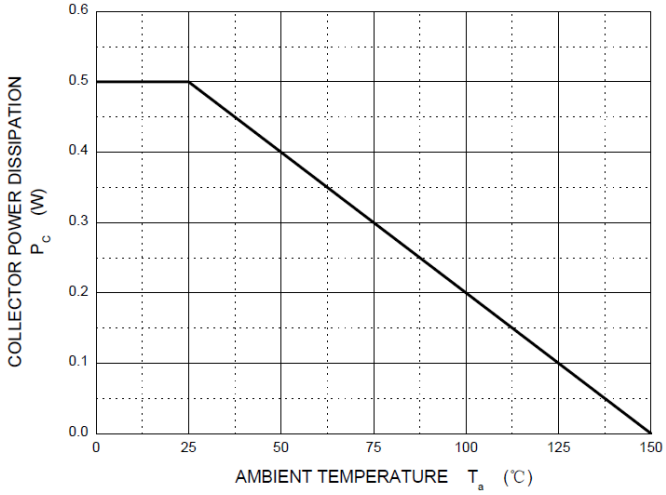
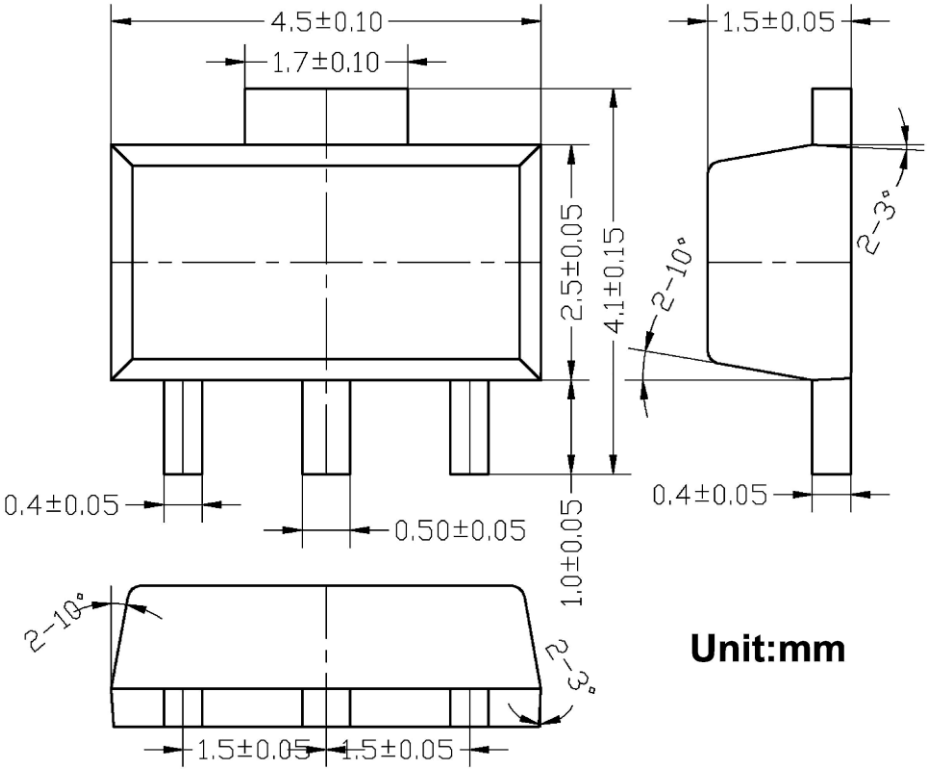


Figure 7. P_C vs. T_a

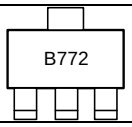


Outline Drawing – SOT-89

PACKAGE OUTLINE



Marking Codes

Part Number	WT772
Marking Code	

Package Information

Qty：1k/Reel

CONTACT INFORMATION

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