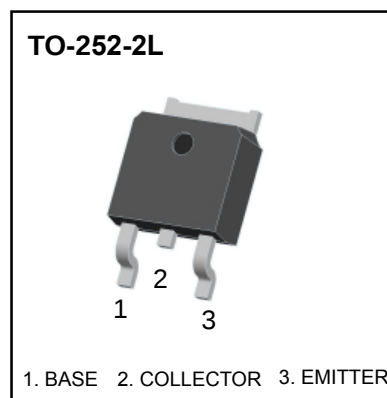


TO-252-2L Plastic-Encapsulate Transistors

TRANSISTOR (PNP)

Feature

- High DC Current Gain
- Electrically Similar to Popular TIP127
- Built-in a Damper Diode at E-C



Limiting Values (Absolute Maximum Rating)

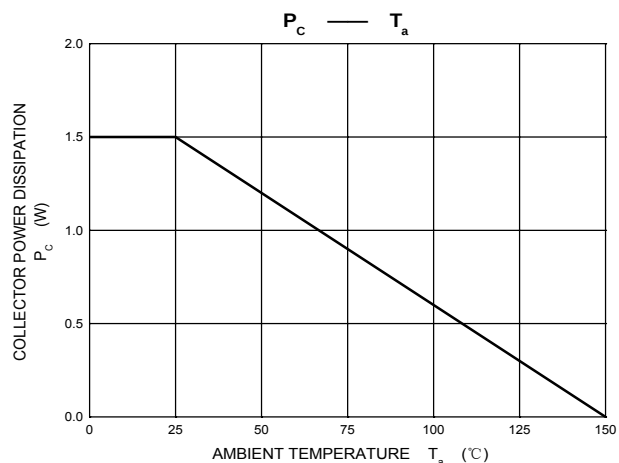
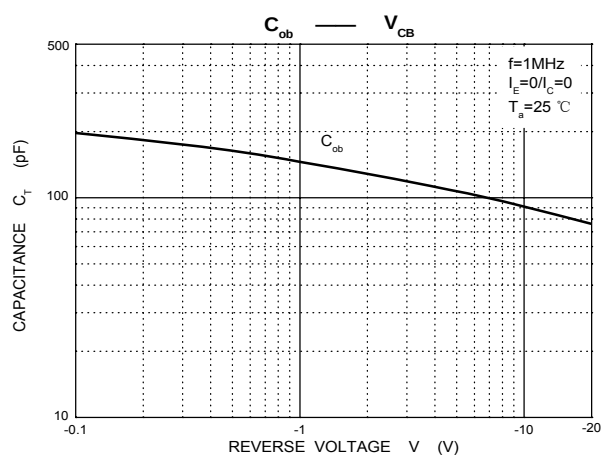
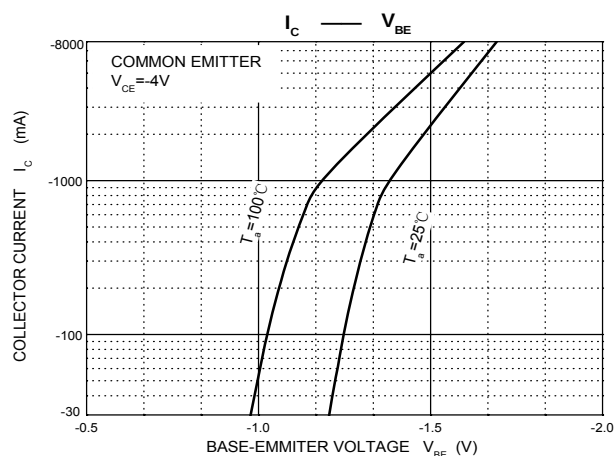
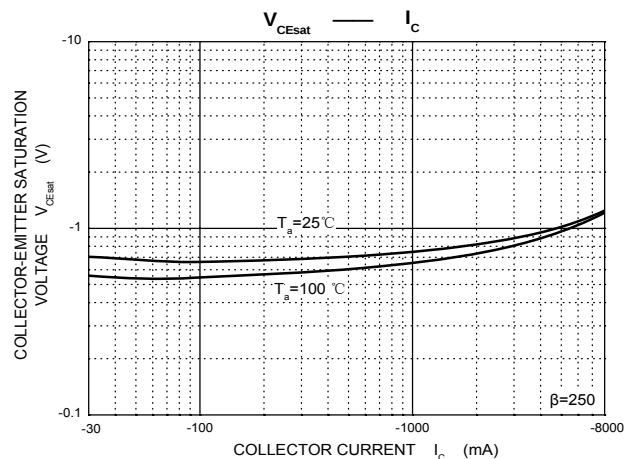
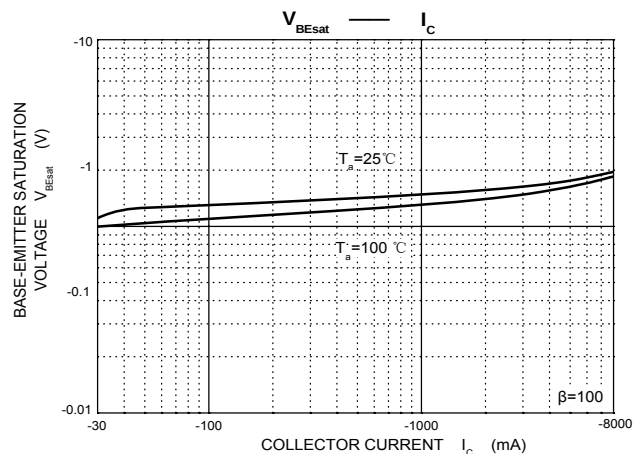
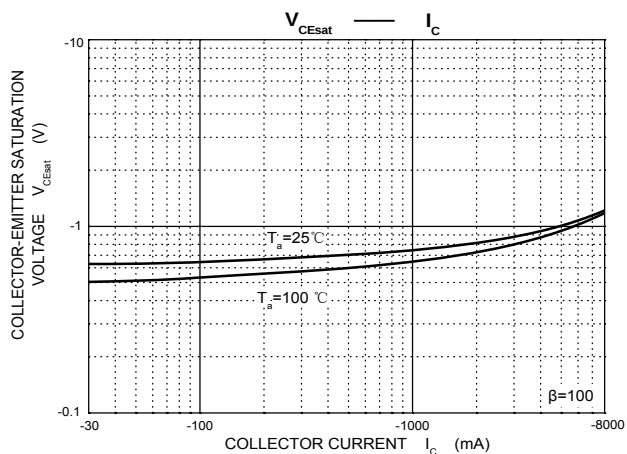
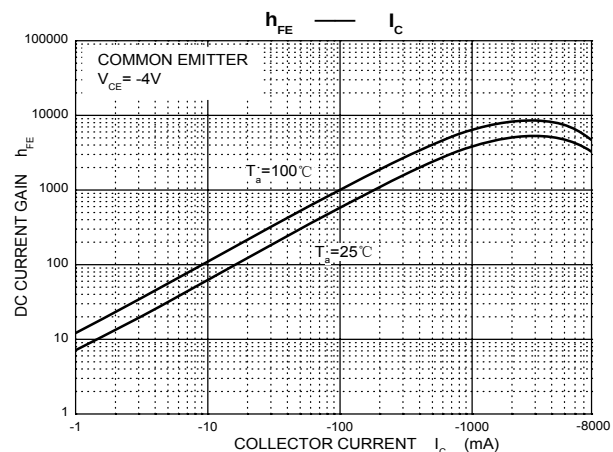
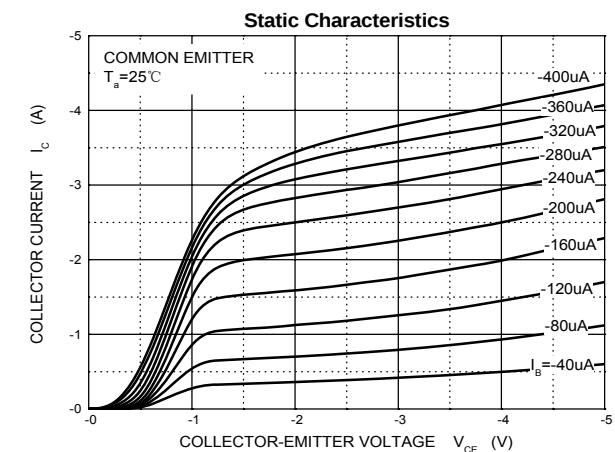
Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-100	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-8	A
P_C	Collector Power Dissipation	1.5	W
T_J	Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55-150	°C

Electrical Characteristics (T=25°C Unless otherwise specified)

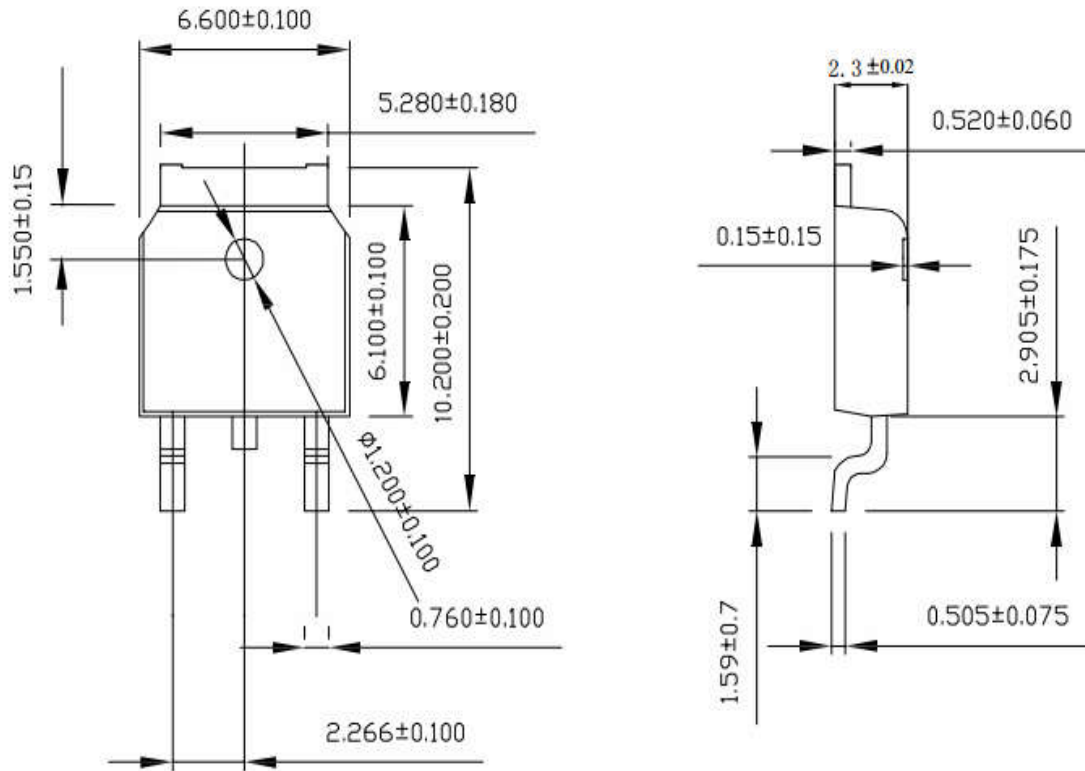
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-1mA, I_E=0$	-100			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-30mA, I_B=0$	-100			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-10mA, I_C=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-100V, I_E=0$			-10	μA
Collector-emitter cut-off current	I_{CEO}	$V_{CE}=-50V, I_B=0$			-10	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-5V, I_C=0$			-2	mA
DC current gain	$h_{FE(1)}$	$V_{CE}=-4V, I_C=-4A$	1000		12000	
	$h_{FE(2)}$	$V_{CE}=-4V, I_C=-8A$	100			
Collector-emitter saturation voltage	$V_{CE(sat)1}^*$	$I_C=-4A, I_B=-16mA$			-2	V
	$V_{CE(sat)2}^*$	$I_C=-8A, I_B=-80mA$			-4	V
Base-emitter saturation voltage	$V_{BE(sat)}^*$	$I_C=-8A, I_B=-80mA$			-4.5	V
Base-emitter voltage	V_{BE}^*	$V_{CE}=-4V, I_C=-4A$			-2.8	V
Collector output capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=0.1MHz$			300	pF

*Pulse Test: Pulse Width $\leq$ 380 μs , Duty Cycle $\leq$ 2%

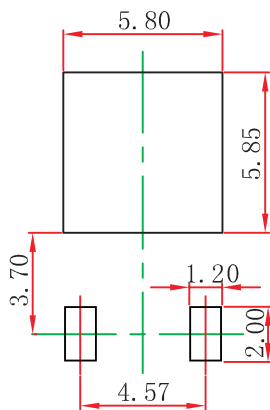
Typical Characteristics



TO-252-2L Package Outline Dimensions



TO-252-2L Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

NOTICE

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