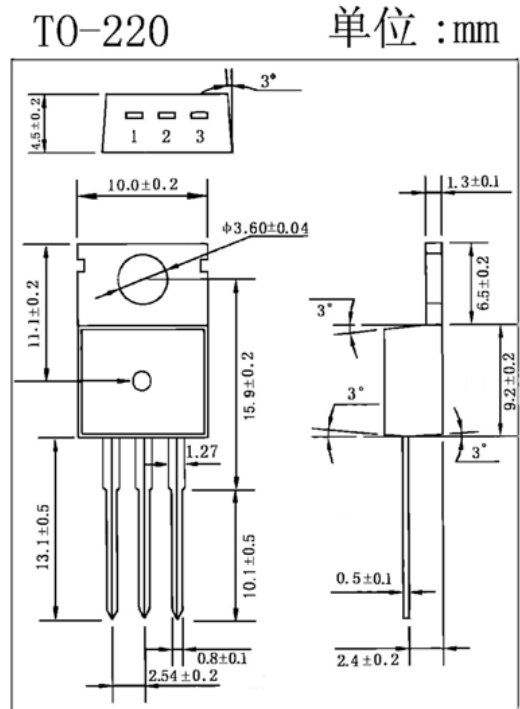


SILICON NPN TRANSISTOR

Purpose: Humidifier, DC-DC converter, and general purpose.

Absolute Maximum Ratings (Ta=25°C)

Symbol	Rating	Unit
V_{CBO}	200	V
V_{CEO}	120	V
V_{EBO}	8.0	V
I_C	7.0	A
I_B	3.0	A
P_C (Tc=25°C)	50	W
T_j	150	°C
T_{stg}	-55~150	°C

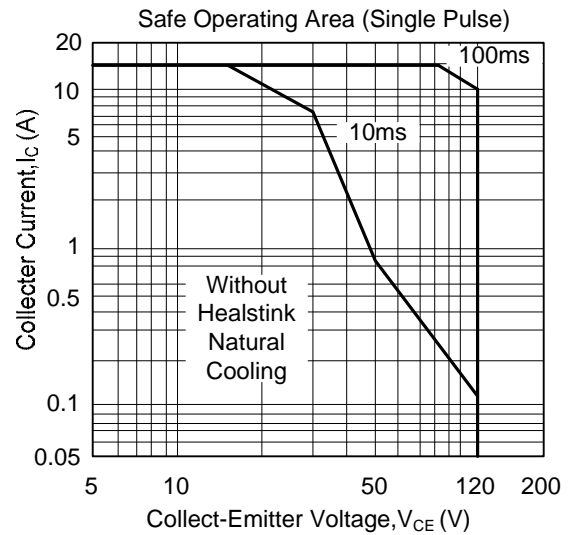
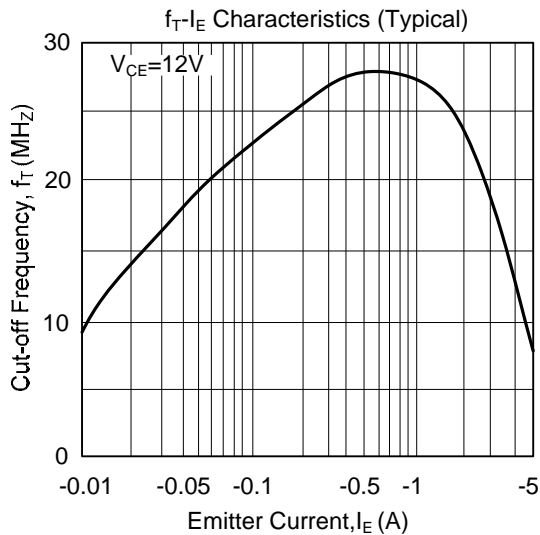
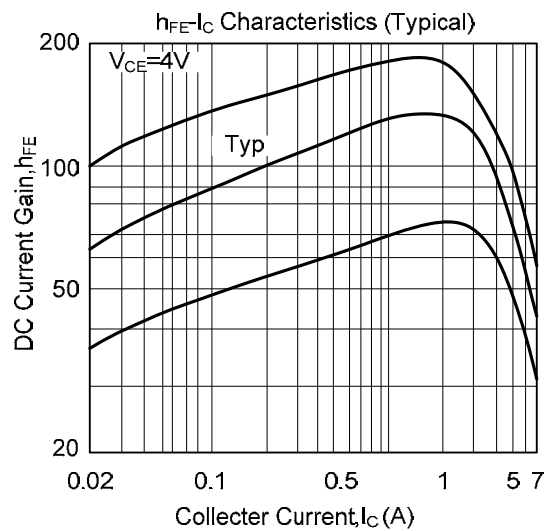
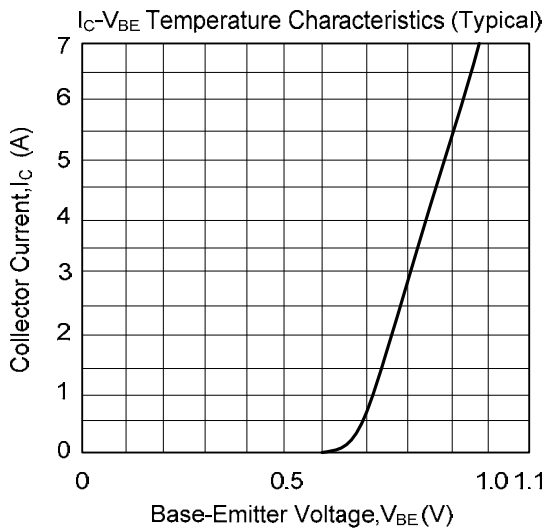
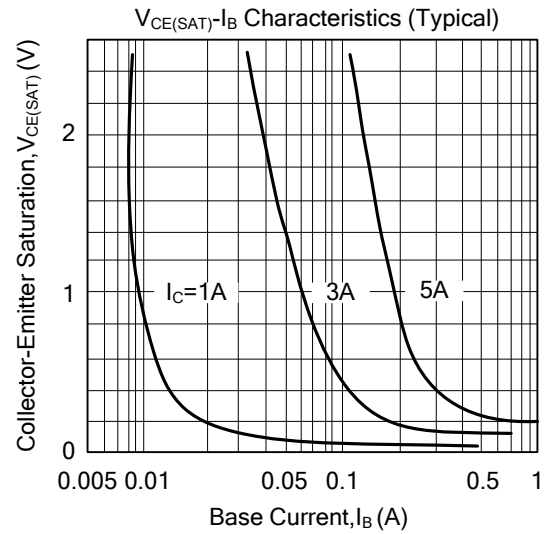
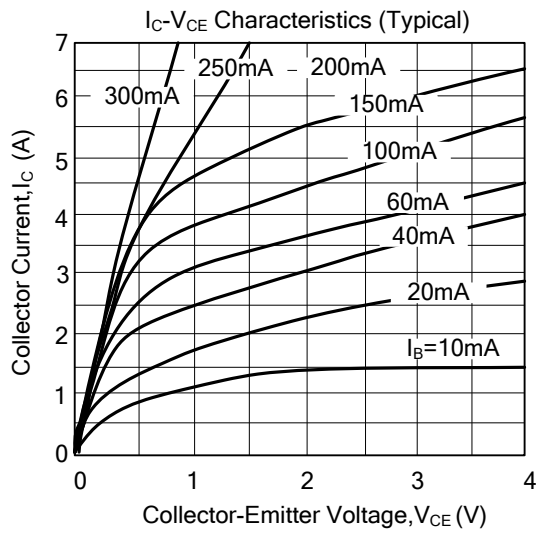


1. Base 2. Collector 3. Emitter

Electrical Characteristics (Ta=25°C)

Symbol	Test Condition		Symbol			Unit
			Min	Typ	Max	
V_{CEO}	$I_C=50mA$	$I_E=0$	120			V
I_{CBO}	$V_{CB}=200V$	$I_E=0$			100	μA
I_{EBO}	$V_{EB}=8.0V$	$I_E=0$			100	μA
h_{FE}	$V_{CE}=4.0V$	$I_C=3.0A$	100		220	
$V_{CE(sat)}$	$I_C=3.0A$	$I_B=0.3A$			0.5	V
$V_{BE(sat)}$	$I_C=3.0A$	$I_B=0.3A$			1.2	V
f_T	$V_{CE}=12V$	$I_E=-0.5A$		30		MHz
C_{ob}	$V_{CB}=10V$	$f=1.0MHz$		110		pF

Typical Characteristics



Typical Characteristics

