

General Purpose Transistors

NPN Silicon

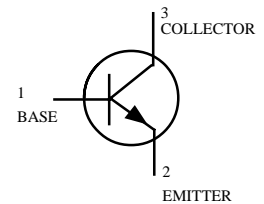
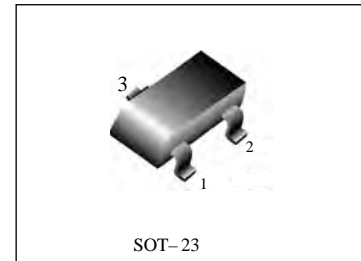
- We declare that the material of product compliance with RoHS requirements.

Purpose: General amplifier and switching application.

Features: Excellent h_{FE} linearity, complementary pair with FTA1505.

Absolute maximum ratings ($T_a=25^\circ\text{C}$)

Symbol	Rating	Unit
V_{CBO}	35	V
V_{CEO}	30	V
V_{EBO}	5.0	V
I_C	500	mA
I_B	50	mA
P_C	150	mW
T_j	150	$^\circ\text{C}$
T_{stg}	-55~150	$^\circ\text{C}$

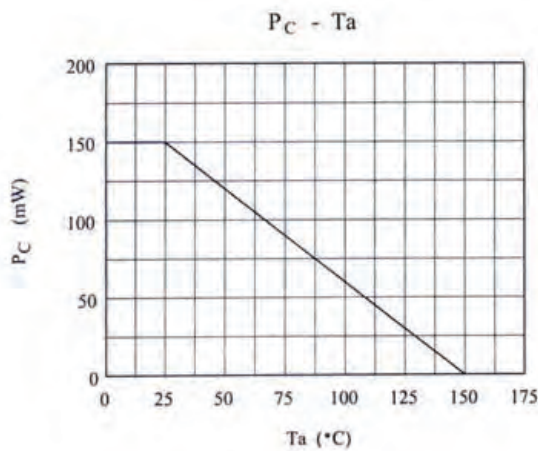
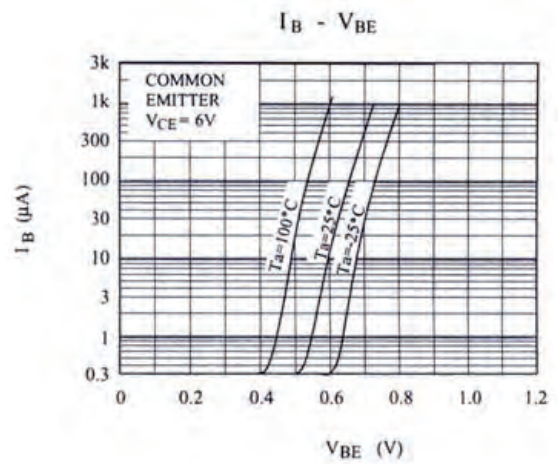
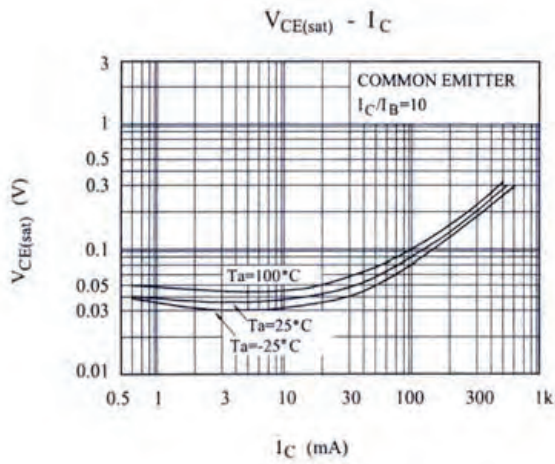
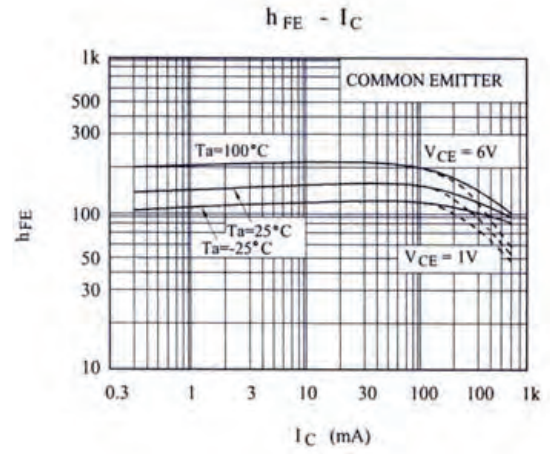
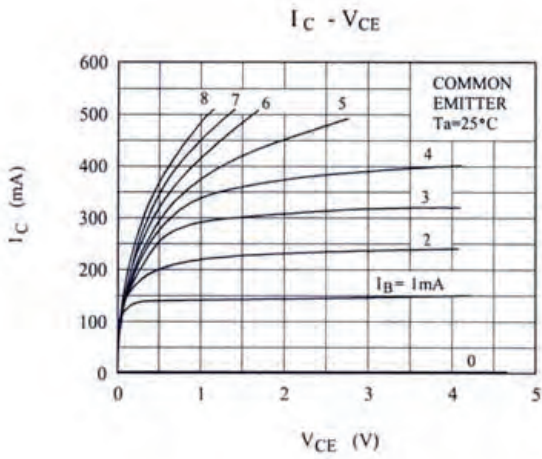


Electrical characteristics ($T_a=25^\circ\text{C}$)

Symbol	Test condition	Rating			Unit
		Min	Typ	Max	
I_{CBO}	$V_{CB}=35\text{V}$ $I_E=0$			0.1	μA
I_{EBO}	$V_{EB}=5.0\text{V}$ $I_C=0$			0.1	μA
$h_{FE(1)}$	$V_{CE}=1.0\text{V}$ $I_C=100\text{mA}$	70		400	
$h_{FE(2)}$	$V_{CE}=6.0\text{V}$ $I_C=400\text{mA}$	25			
$V_{CE(sat)}$	$I_C=100\text{mA}$ $I_B=10\text{mA}$		0.1	0.25	V
V_{BE}	$V_{CE}=1.0\text{V}$ $I_C=100\text{mA}$		0.8	1.0	V
f_T	$V_{CE}=6.0\text{V}$ $I_C=20\text{mA}$		300		MHz
C_{ob}	$V_{CB}=6.0\text{V}$ $I_E=0$ $f=1.0\text{MHz}$		7.0		pF

$h_{FE(1)}$ classifications、Marking:

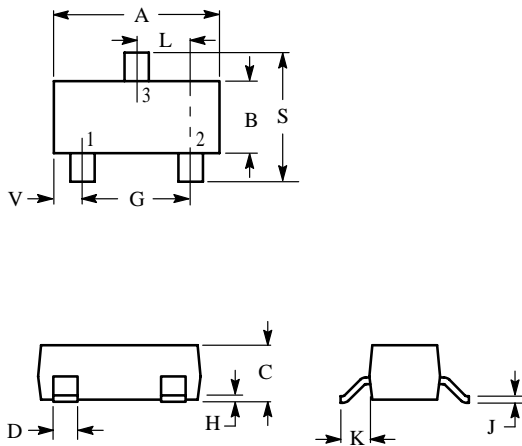
$h_{FE(1)}$ Classifications	0	Y	GR
$h_{FE(1)}$ Range	70~140	120~240	200~400
Marking	HWO	HWY	HWG



SOT -23

NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M,1982
2. CONTROLLING DIMENSION: INCH.



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.1102	0.1197	2.80	3.04
B	0.0472	0.0551	1.20	1.40
C	0.0350	0.0440	0.89	1.11
D	0.0150	0.0200	0.37	0.50
G	0.0701	0.0807	1.78	2.04
H	0.0005	0.0040	0.013	0.100
J	0.0034	0.0070	0.085	0.177
K	0.0140	0.0285	0.35	0.69
L	0.0350	0.0401	0.89	1.02
S	0.0830	0.1039	2.10	2.64
V	0.0177	0.0236	0.45	0.60

