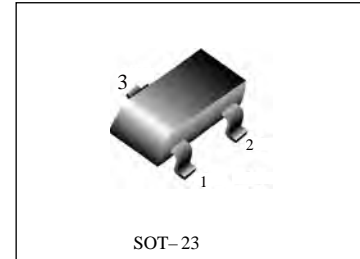


## General Purpose Transistors

**LOW FREQUENCY POWER AMPLIFIER APPLICATION.**  
**POWER SWITCHING APPLICATION.**

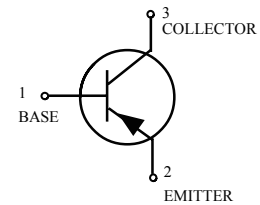
### FEATURES

- High DC Current Gain :  $h_{FE}=100\sim 320$ .
- Low Saturation Voltage  
:  $V_{CE(sat)}=-0.4V(\text{Max.})$  ( $I_C=-500\text{mA}$ ,  $I_B=-20\text{mA}$ ).
- Suitable for Driver Stage of Small Motor.
- Complementary to FTC3265.
- Small Package.



### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector- Base Voltage	$V_{CBO}$	- 35	V
Collector- Emitter Voltage	$V_{CEO}$	- 30	V
Emitter- Base Voltage	$V_{EBO}$	- 5	V
Collector Current	$I_C$	- 800	mA
Base Current	$I_B$	- 160	mA
Collector Power Dissipation	$P_C$	200	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	- 55~ 150	°C

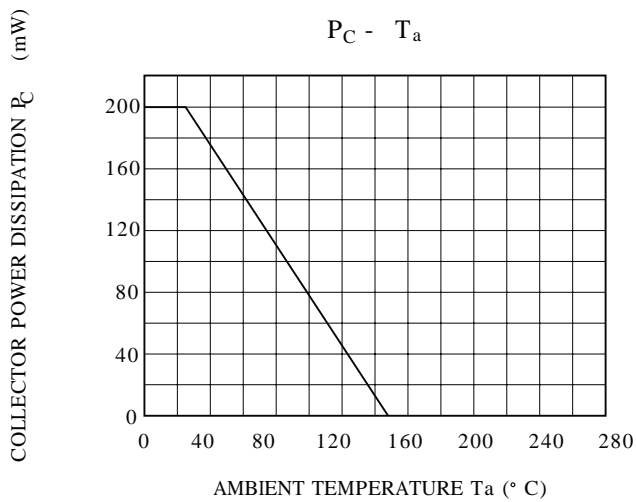
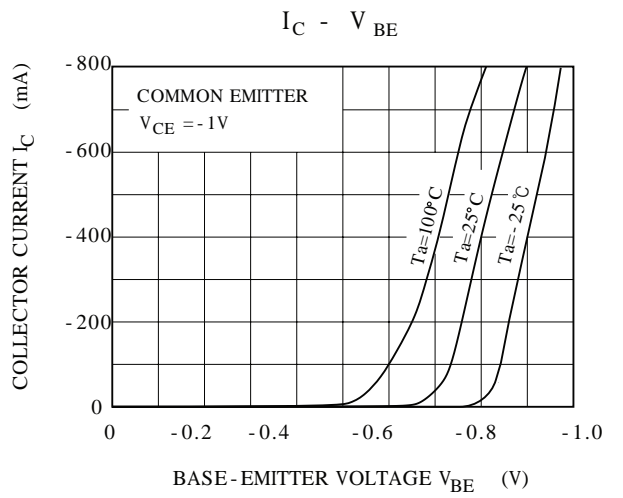
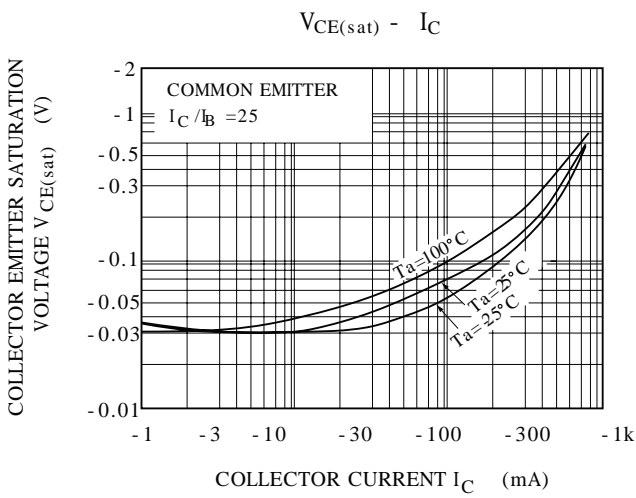
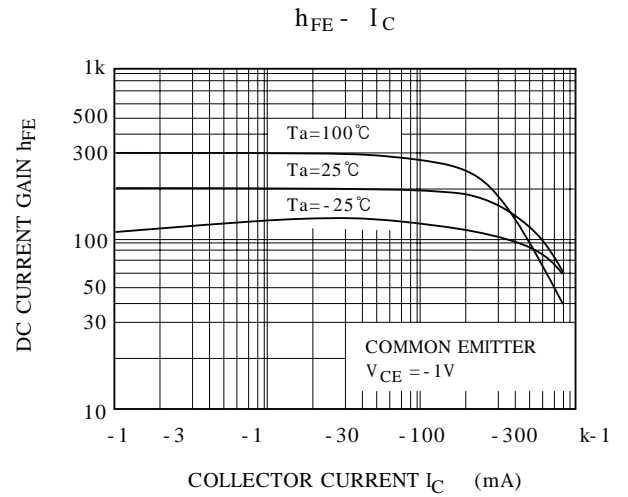
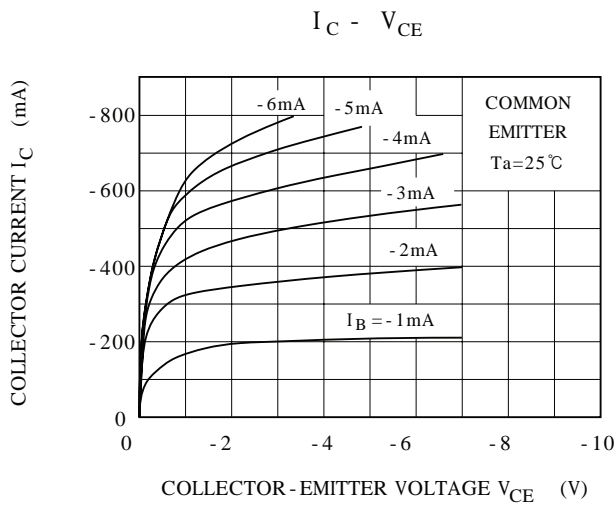


### ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut- off Current	$I_{CBO}$	$V_{CB}=-30V$ , $I_E=0$	-	-	- 100	nA
Emitter Cut- off Current	$I_{EBO}$	$V_{EB}=-5V$ , $I_C=0$	-	-	- 100	nA
Collector- Emitter Breakdown Voltage	$V_{(BR)CEO}$	$V_{EB}=-10\text{mA}$ , $I_B=0$	- 30	-	-	V
Emitter- Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=-1\text{mA}$ , $I_C=0$	- 5	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=-1V$ , $I_C=-100\text{mA}$	100	-	320	
	$h_{FE(2)}$	$V_{CE}=-1V$ , $I_C=-800\text{mA}$	40	-	-	
Collector- Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-500\text{mA}$ , $I_B=-20\text{mA}$	-	-	- 0.5	V
Base- Emitter Voltage	$V_{BE}$	$V_{CE}=-1V$ , $I_C=-10\text{mA}$	- 0.5	-	- 0.8	V
Transition Frequency	$f_T$	$V_{CE}=-5V$ , $I_C=-10\text{mA}$ , $f=100\text{MHz}$	-	120	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-10V$ , $I_E=0$ , $f=1\text{MHz}$	-	13	-	pF

$h_{FE(1)}$  classifications、Marking:

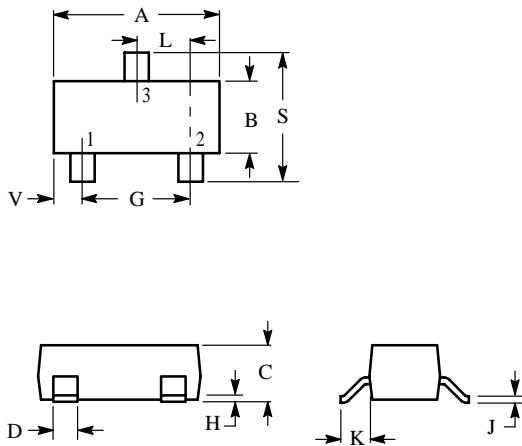
$h_{FE(1)}$ Classifications	0	Y	
$h_{FE(1)}$ Range	100~200	160~320	
Marking	H10	H1Y	



## 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

