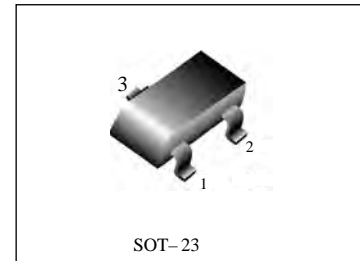


General Purpose Transistors

LOW FREQUENCY POWER AMPLIFIER APPLICATION.
POWER SWITCHING APPLICATION.

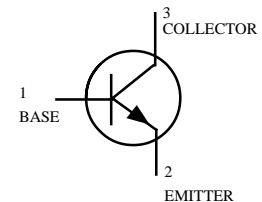
FEATURES

- 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 FTA1298.
- 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

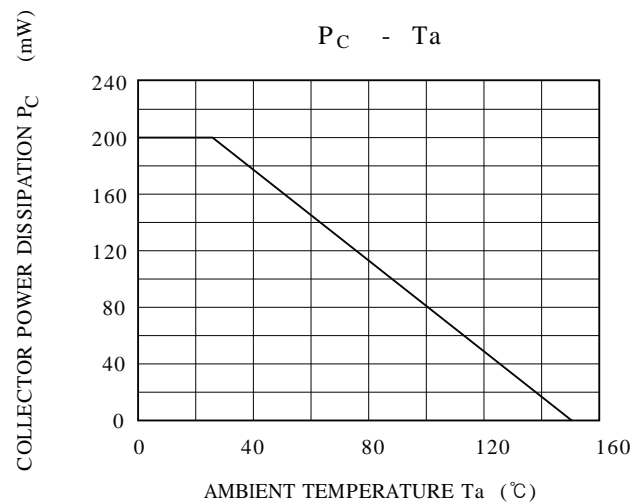
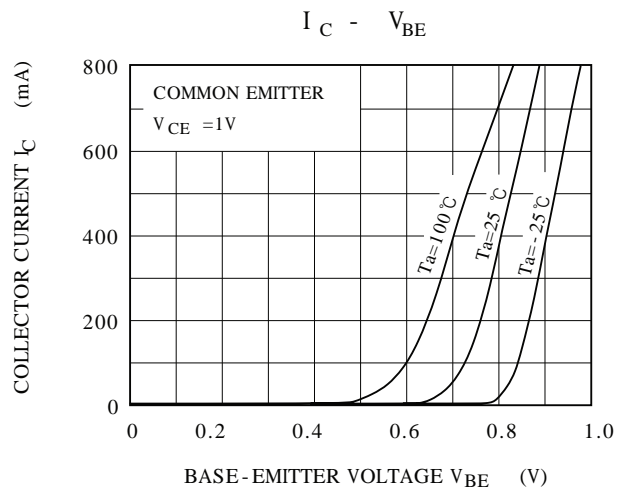
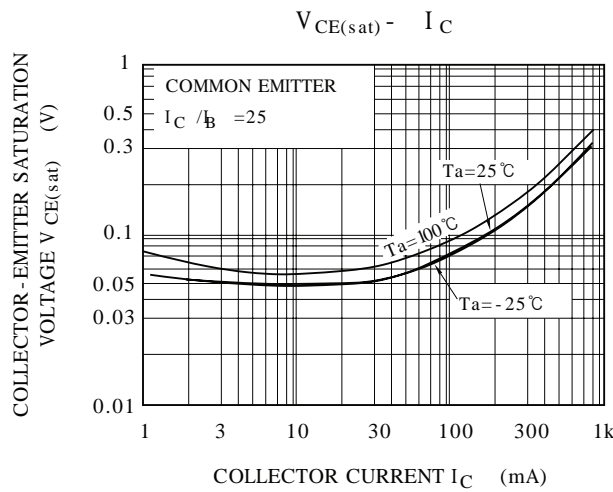
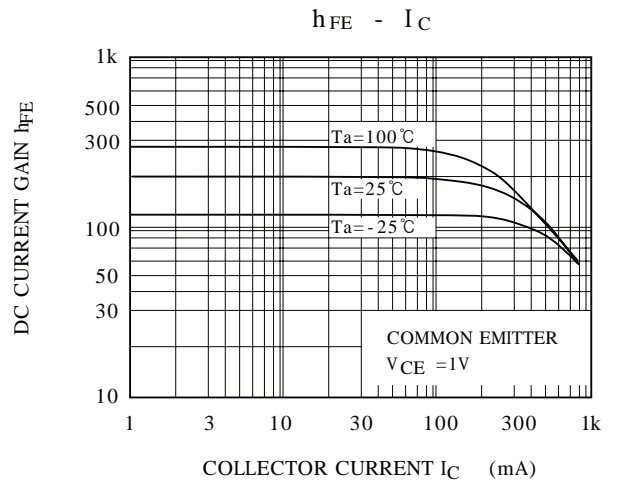
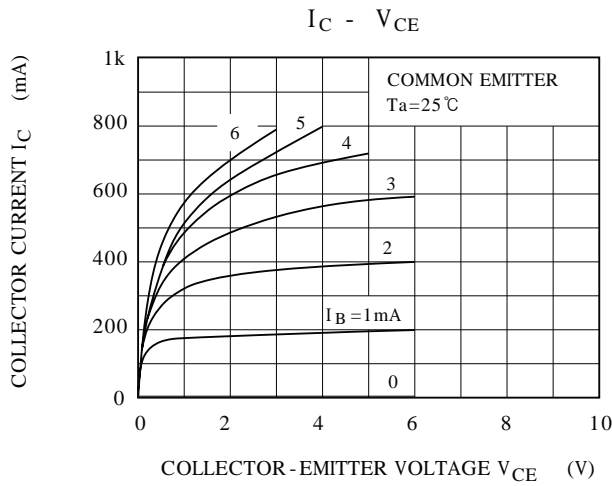


ELECTRICAL CHARACTERISTICS (Ta=25°C)

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:

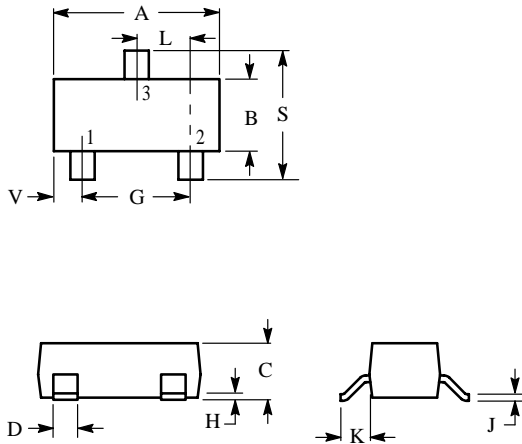
$h_{FE(1)}$ Classifications	0	Y	
$h_{FE(1)}$ Range	100~200	160~320	
Marking	HK10	HK1Y	



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

