

### FEATURES

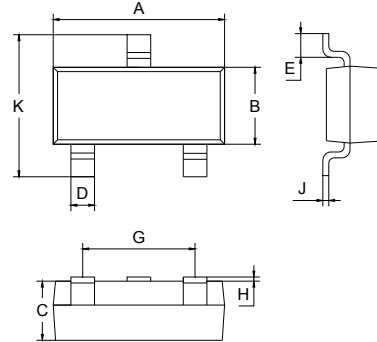
- High DC current gain:  $h_{FE}$ :100-320.
- Low saturation voltage.
- Suitable for driver stage of small motor.
- Complementary to KTA1298.
- Small package.

### APPLICATIONS

- Low frequency power amplifier application.
- Power switching application.

### ORDERING INFORMATION

Type No.	Marking	Package Code
KTC3265	EO/EY	SOT-23



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	1.0 Typical	
D	0.4 Typical	
E	0.35	0.48
G	1.80	2.00
H	0.02	0.1
J	0.1 Typical	
K	2.20	2.60
All Dimensions in mm		

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	Units
$V_{CBO}$	Collector-Base Voltage	35	V
$V_{CEO}$	Collector-Emitter Voltage	30	V
$V_{EBO}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current -Continuous	800	mA
$I_B$	Base Current	160	mA
$P_C$	Collector Power Dissipation	200	mW
$T_j, T_{stg}$	Junction and Storage Temperature	-55 to +150	°C

### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

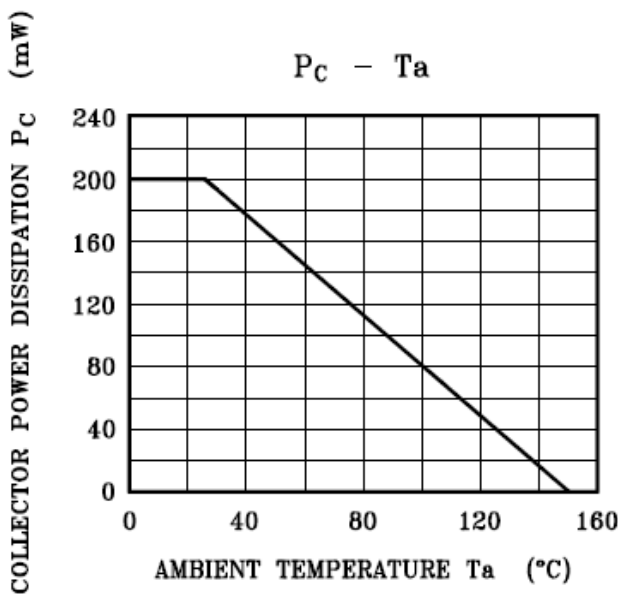
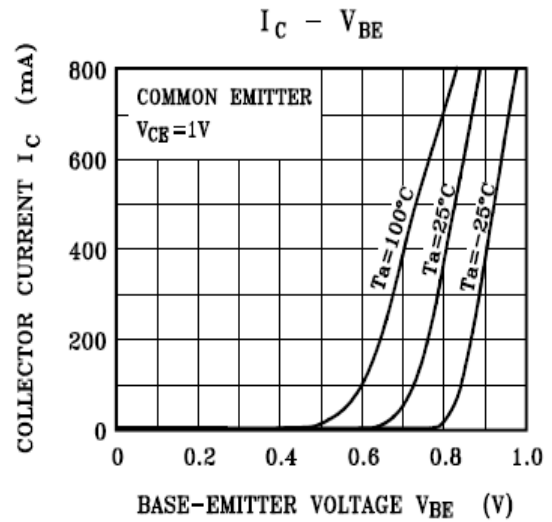
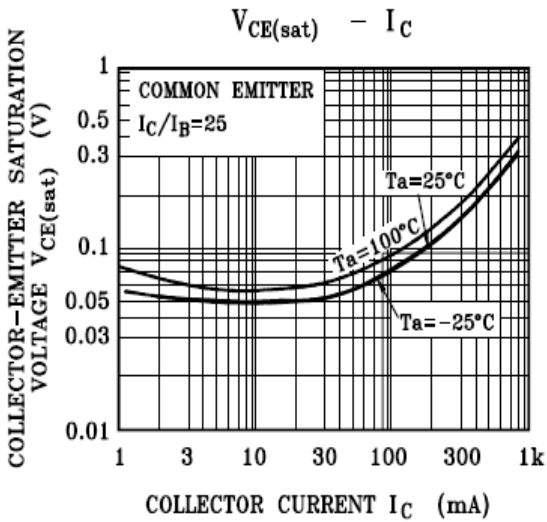
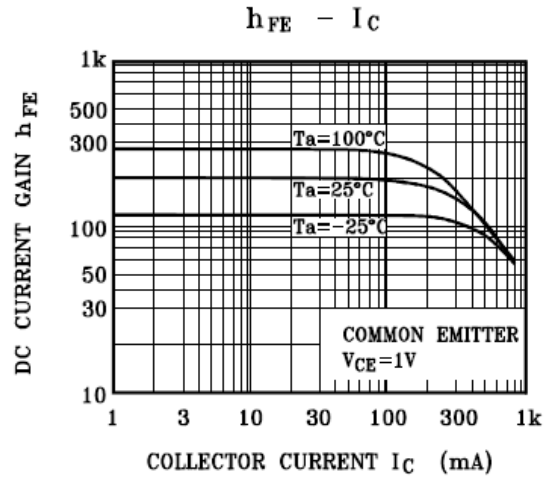
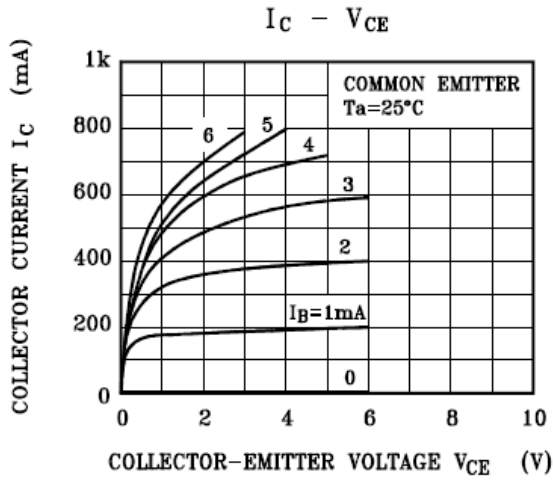
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=1mA, I_E=0$	35			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=1mA, I_C=0$	5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=30V, I_E=0$			0.1	μA
Emitter cut-off current	$I_{EBO}$	$V_{EB}=5V, I_C=0$			0.1	μA
DC current gain	$h_{FE}$	$V_{CE}=1V, I_C=100mA$ $V_{CE}=1V, I_C=800mA$	100 40		320	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=20mA$			0.5	V
Base-emitter saturation voltage	$V_{BE}$	$V_{CE}=1V, I_C=10mA$	0.5		0.8	V
Transition frequency	$f_T$	$V_{CE}=5V, I_C=10mA$ $f=100MHz$		120		MHz
Collector output capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$		13		pF

### CLASSIFICATION OF $h_{FE}$

Rank	O	Y
Range	100-200	160-320
Marking	EO	EY



TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



Package	Reel	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)
SOT-23	3000pcs	7inch	45,000pcs	203×203×195	180,000pcs	438×438×220