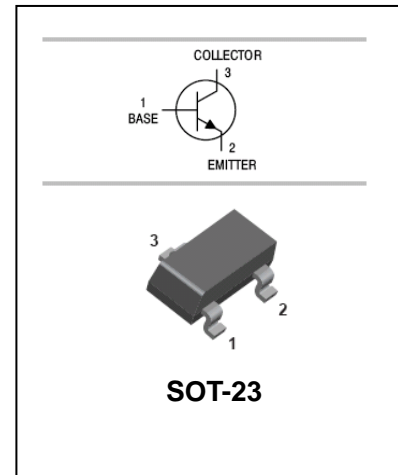


## NPN Silicon Epitaxial Planar Transistor

## KTC3265

### FEATURES

- High DC current gain:  $h_{FE}:100-320$
- Low saturation voltage.
- Suitable for driver stage of small motor.
- Complementary to KTC1298.
- Small package.



### APPLICATIONS

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

### ORDERING INFORMATION

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

### MAXIMUM RATING @ $T_a=25^{\circ}\text{C}$ 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	-55~150	$^{\circ}\text{C}$

**NPN Silicon Epitaxial Planar Transistor****KTC3265****ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=10mA, I_E=0$	35			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10mA, I_C=0$	5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=30V, I_E=0$			0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=5V, I_C=0$			0.1	$\mu A$
DC current gain	$h_{FE}$	$V_{CE}=1V, I_C=100mA$	100		320	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=20mA$			0.5	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

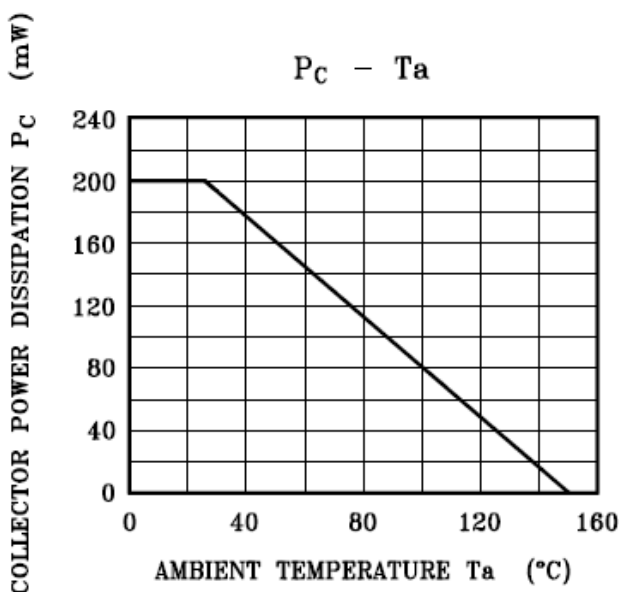
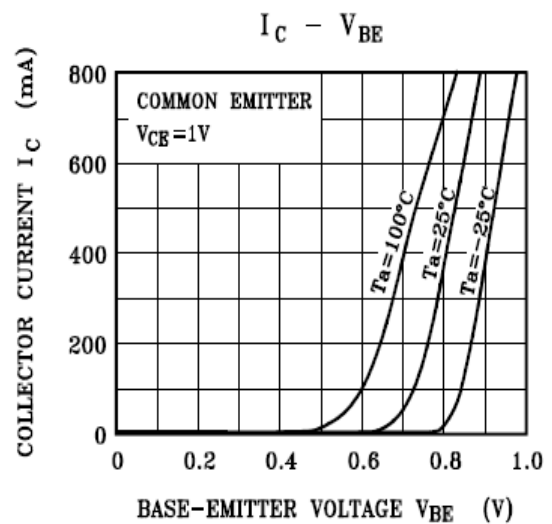
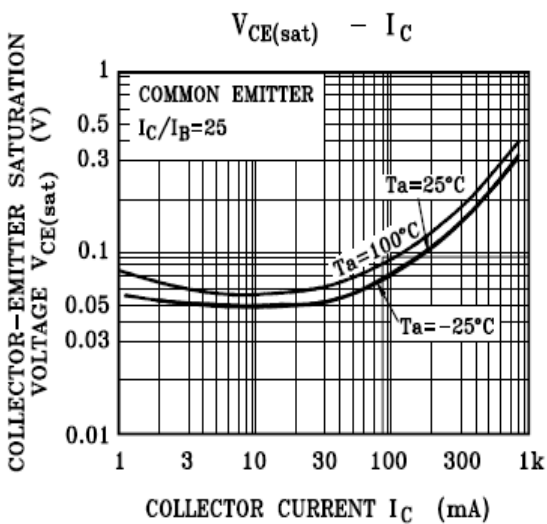
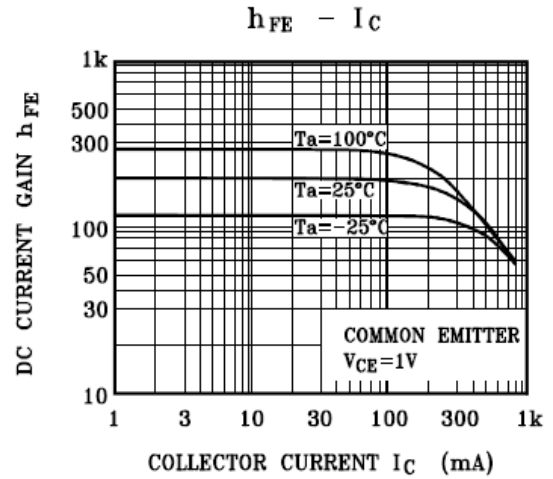
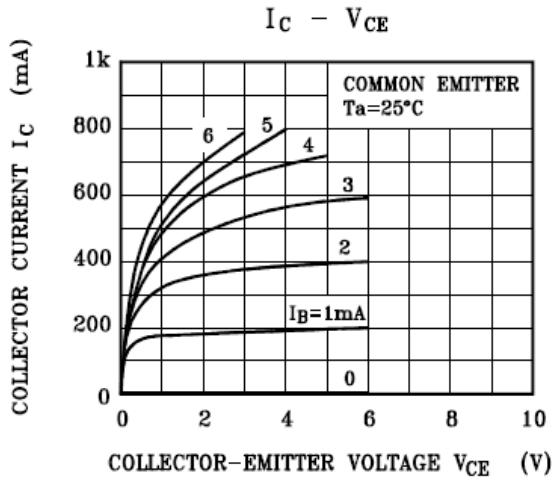
**CLASSIFICATION OF  $h_{FE}$** 

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

## NPN Silicon Epitaxial Planar Transistor

## KTC3265

TYPICAL CHARACTERISTICS @  $T_a=25^\circ\text{C}$  unless otherwise specified



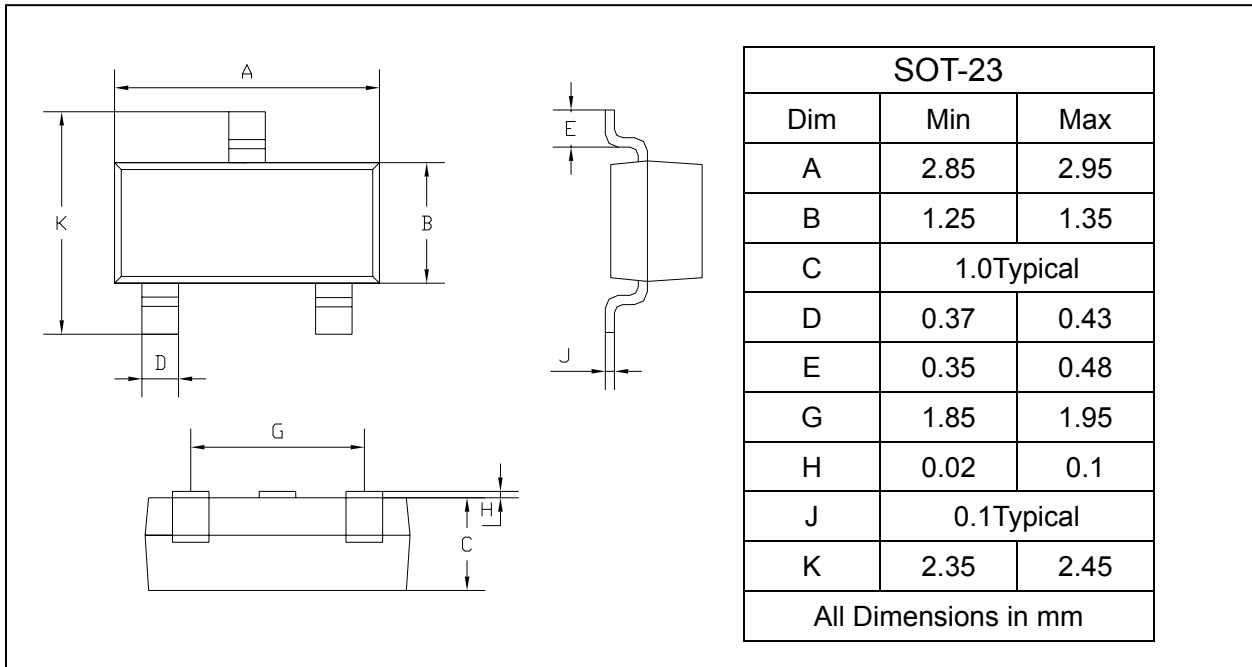
## NPN Silicon Epitaxial Planar Transistor

## KTC3265

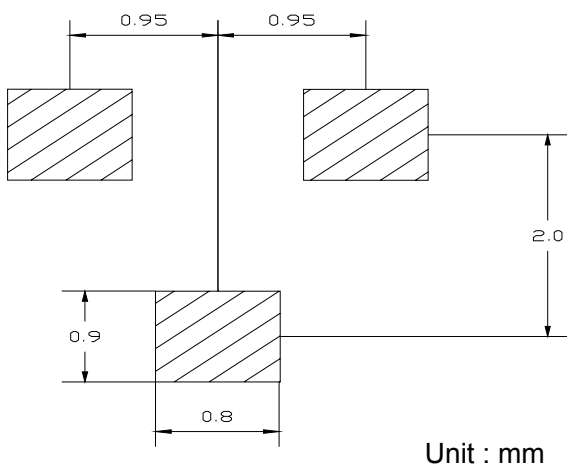
### PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



### SOLDERING FOOTPRINT



### PACKAGE INFORMATION

Device	Package	Shipping
KTC3265	SOT-23	3000/Tape&Reel

[www.s-manuals.com](http://www.s-manuals.com)