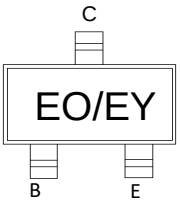
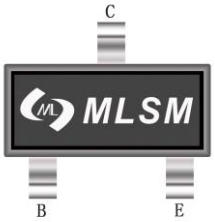
Features

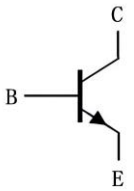
- High DC current gain
- Complementary to KTA1298



Marking and pin assignment



SOT-23 top view



Schematic diagram

Pb-Free RoHS Halogen-Free

Maximum Ratings (Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
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	800	mA
P_c	Collector Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	625	℃/W
T_J , T_{STG}	Operating and Storage Temperature Range	-55～+150	℃

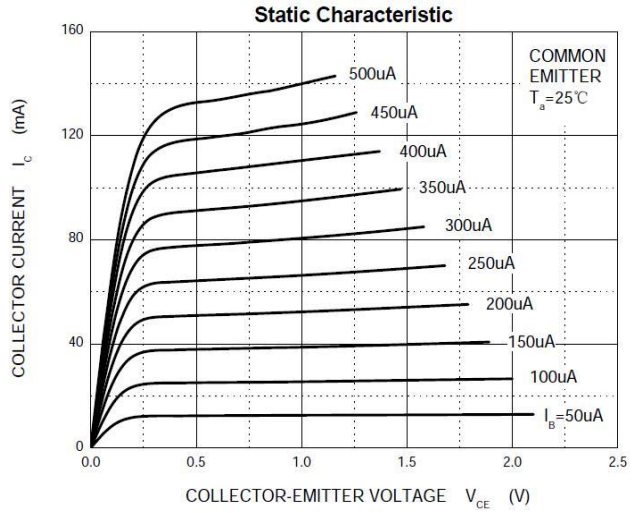
Electrical Characteristics (Ta=25℃ unless otherwise specified)

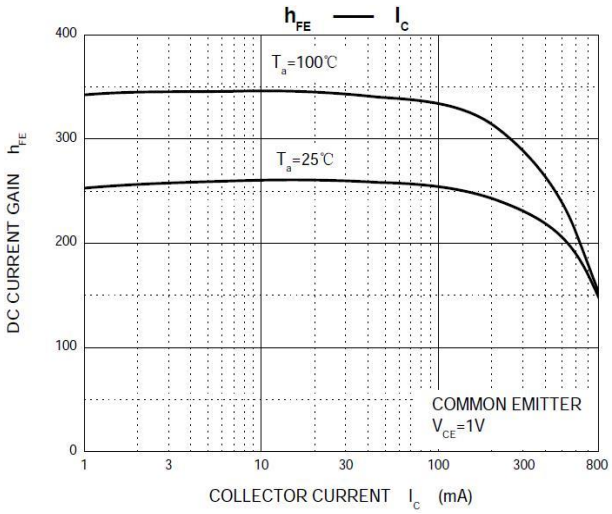
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	I_C=100μA,I_E=0	35	--	--	V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	I_C=10mA,I_B=0	30	--	--	V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	I_E=100μA,I_C=0	5	--	--	V
I_{CBO}	Collector cut-off current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

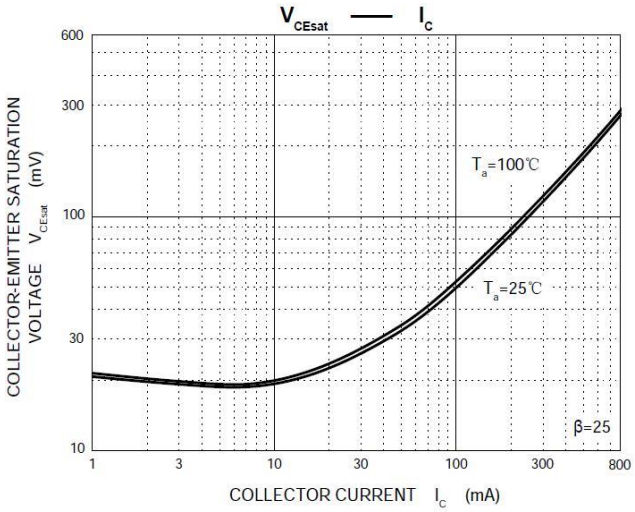
Classification Of $h_{FE(1)}$

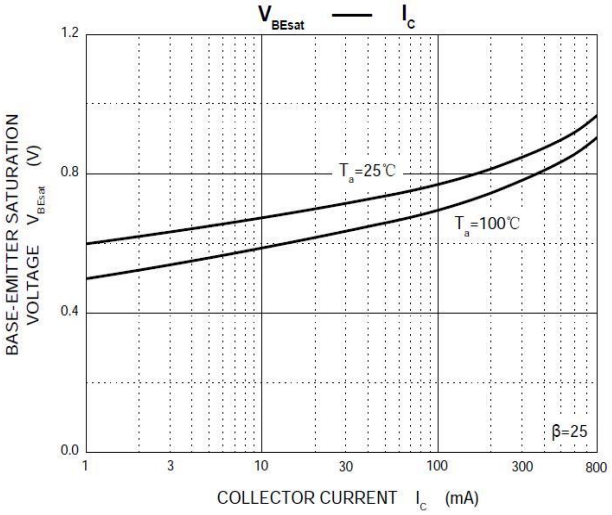
Rank	O	Y
Range	100-200	160-320
Marking	EO	EY

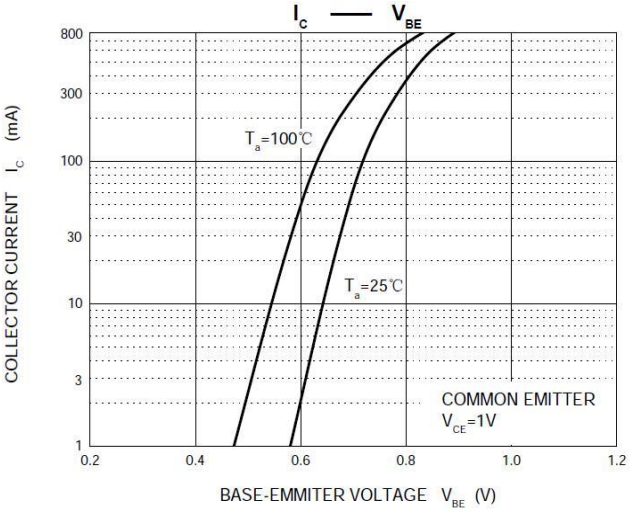
Typical Operating Characteristics

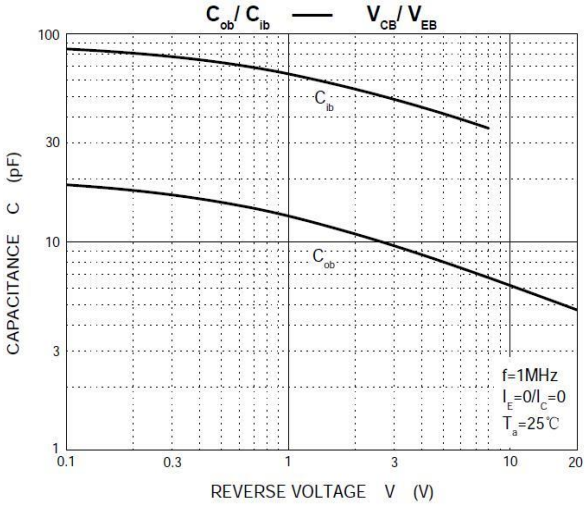


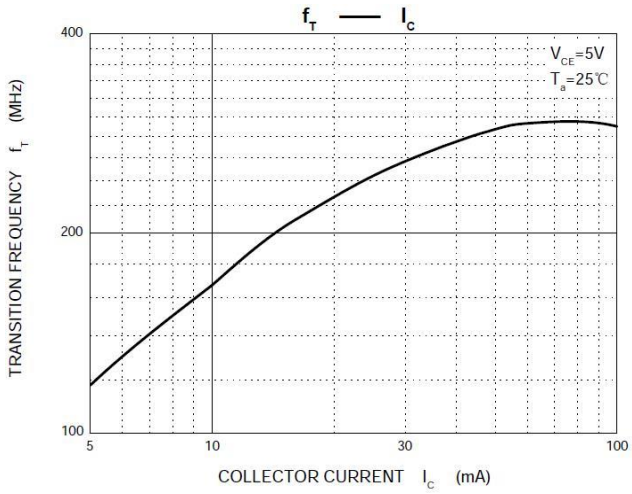


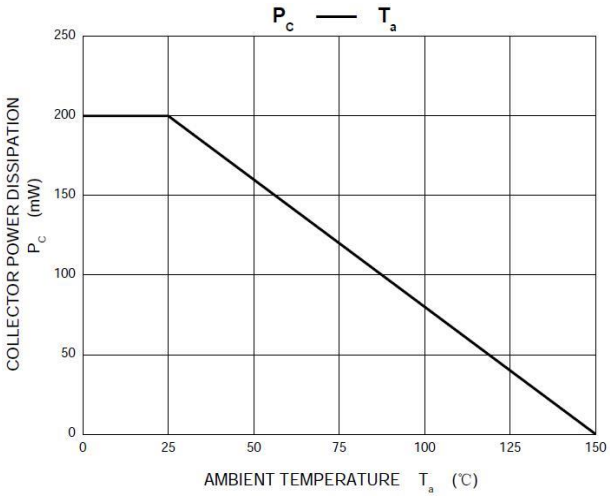








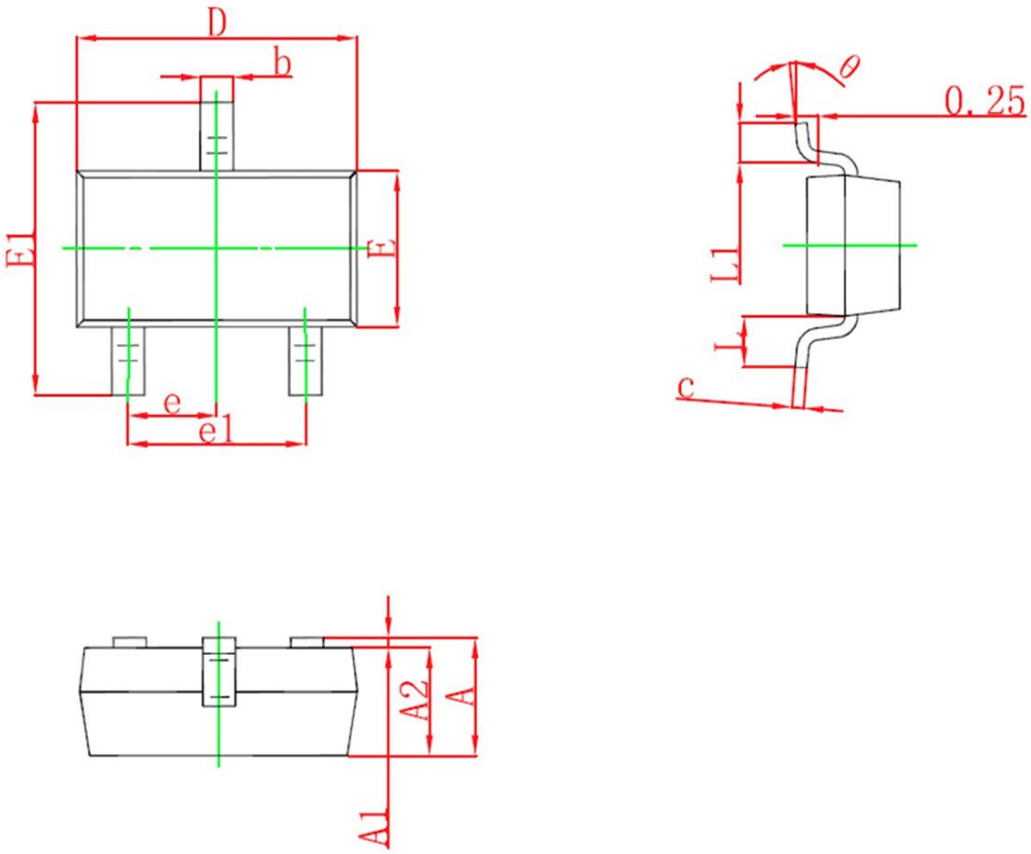




Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
KTC3265	SOT-23	EO/EY	3,000	45,000	180,000	7"reel

SOT-23 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E1	2.250	2.550	0.088	0.100
E	1.200	1.400	0.047	0.055
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°