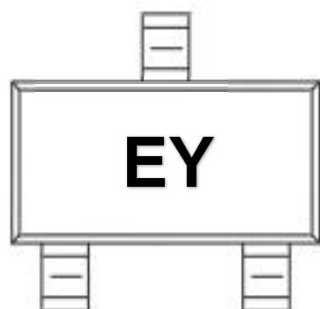


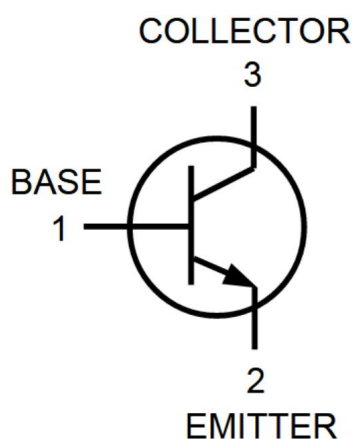
SOT-23 Plastic-Encapsulate MOSFETS

KTC3265 TRANSISTOR (NPN)

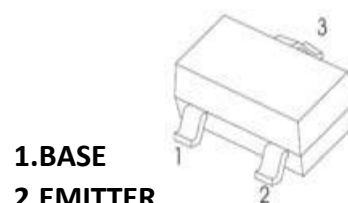
MARKING:



Equivalent Circuit:



SOT-23



1.BASE
2.EMITTER
3.COLLECTOR

FEATURES:

- ※ Complimentary to KTA1298
- ※ High DC current gain
- ※ Low saturation voltage: $V_{CE(sat)} = 0.4\text{ V (max)}$
($I_C = 800\text{ mA}$, $I_B = 20\text{ mA}$).

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	VCBO	35	V
Collector-Emitter Voltage	VCEO	30	V
Emitter-Base Voltage	VEBO	5	V
Collector Current	I_C	800	mA
Collector Power Dissipation	PC	200	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	625	$^\circ\text{C/W}$
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55~+150	$^\circ\text{C}$

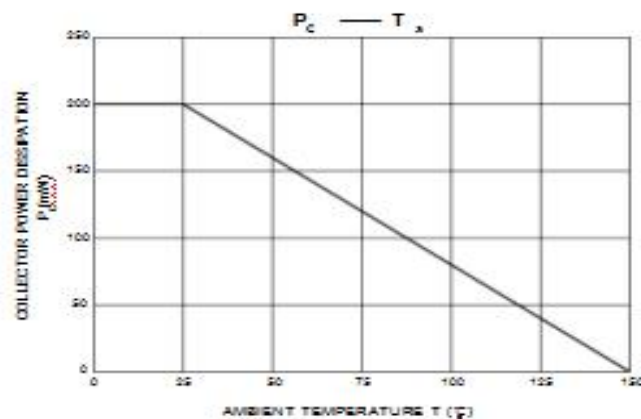
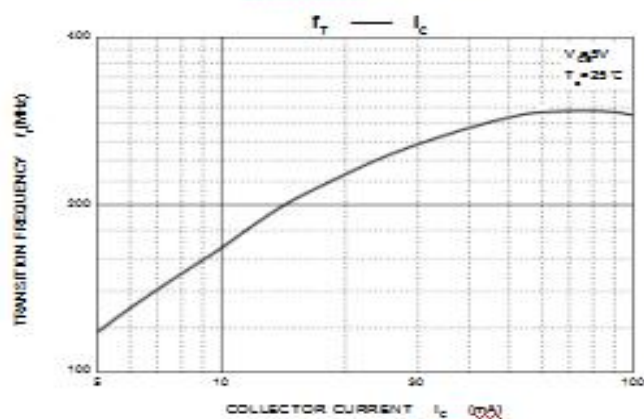
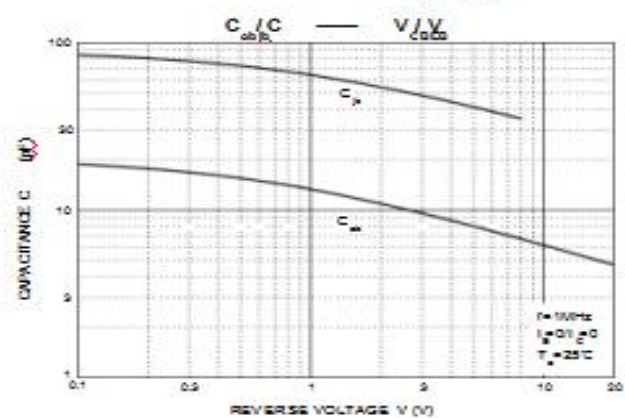
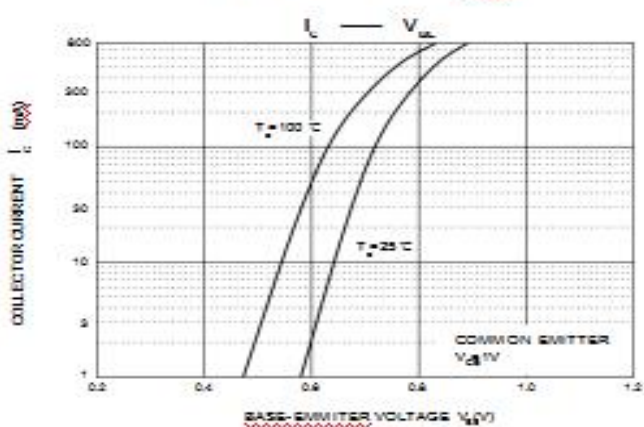
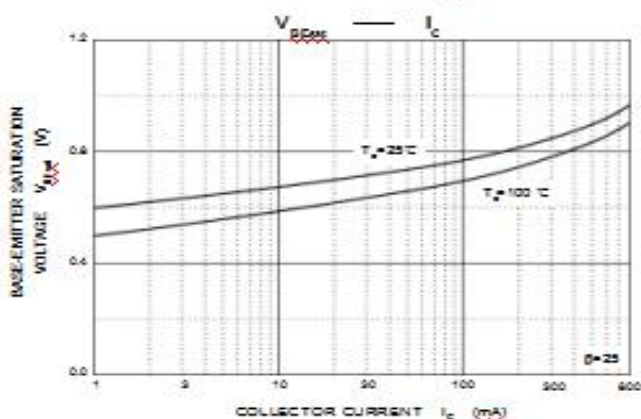
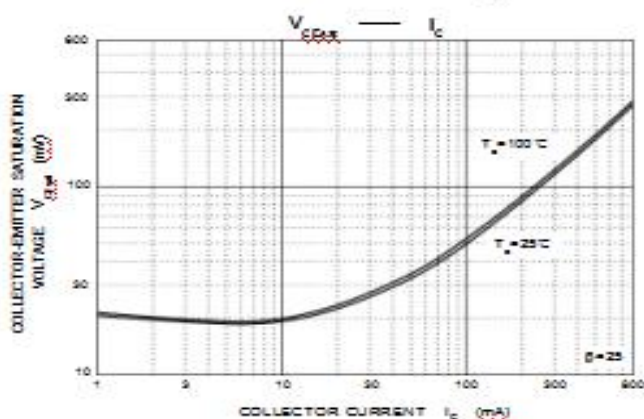
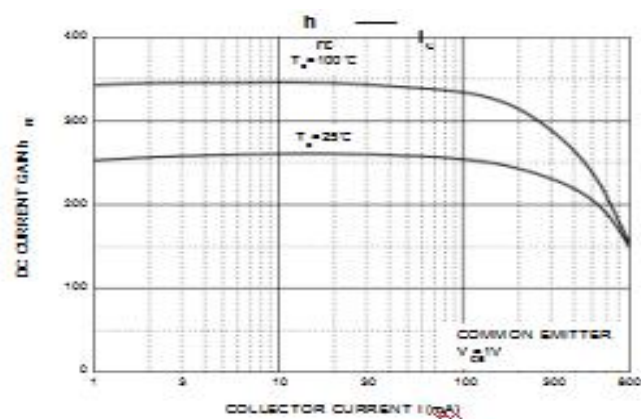
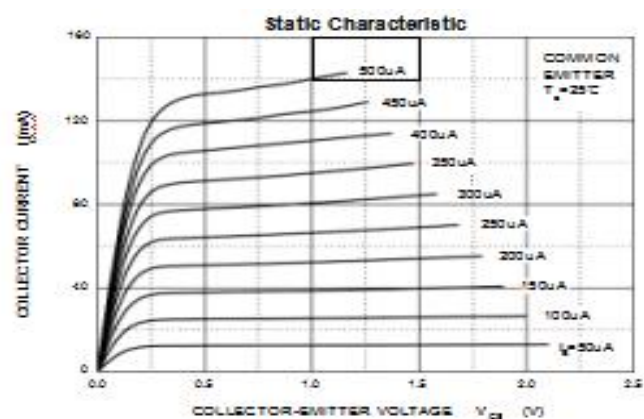
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	IC= 100μA, IE=0	35			V
Collector-emitter breakdown voltage	V(BR)CEO	IC= 10mA, IB=0	30			V
Emitter-base breakdown voltage	V(BR)EBO	IE=100μA, IC=0	5			V
Collector cut-off current	ICBO	VCB=30 V , IE=0			0.1	μA
Collector cut-off current	ICEO	VCB=25V , IE=0			0.1	μA
Emitter cut-off current	IEBO	VEB= 5V , IC=0			0.1	μA
DC current gain	hFE	VCE=1V, IC= 100mA	100		320	
Collector-emitter saturation voltage	VCE(sat)	IC=500 mA, IB= 20mA			0.5	V
Base-emitter saturation voltage	VBE(sat)	VCE= 1V, IC= 10mA	0.5		0.8	V
Transition frequency	fT	VCE=5V, IC= 10mA f=100MHz		120		MHz
Collector output capacitance	Cob	VCB=10V,IE=0, f=1MHZ		13		PF

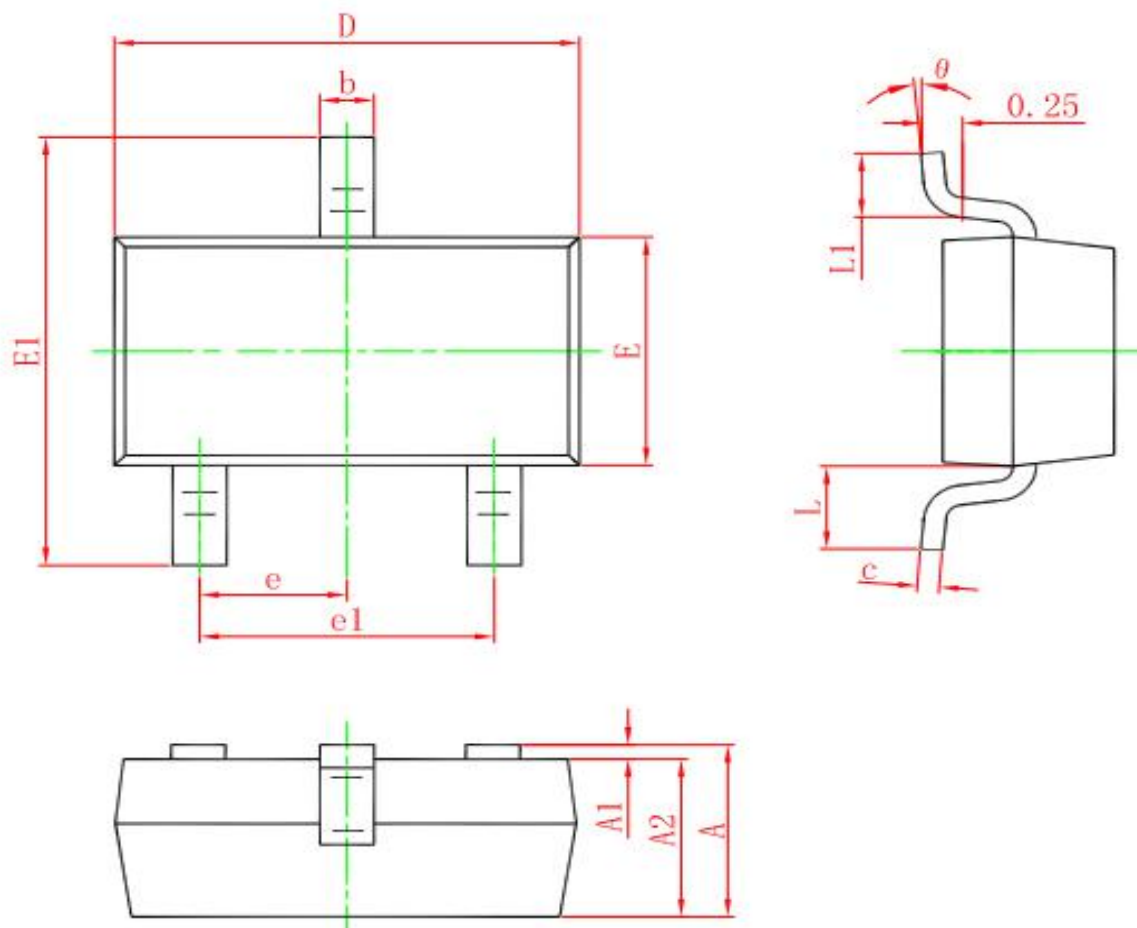
CLASSIFICATION OF hFE

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

TYPICAL ELECTRICAL AND THERMAL CHARACTERISTICS



SOT-23 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		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
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP.		0.037 TYP.	
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°