UMW 2SC3265

SOT-23 Plastic-Encapsulate Transistors

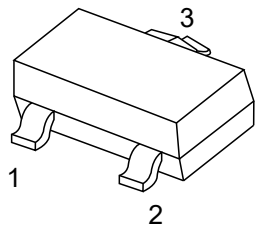
1.Features

- High DC current gain
- 2SC3265 TRANSISTOR (NPN)
- Complementary to KTA1298

2.Pinning Information

Pin	Symbol	Description
1	B	BASE
2	E	EMITTER
3	C	COLLECTOR

SOT-23



3.Absolute Maximum Ratings T_A= 25°C

Parameter	Symbol	Value	Units
Collector-Base Voltage	V_{CBO}	35	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current -Continuous	I_C	800	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to 150	°C

4.Electrical Characteristics T_A= 25°C

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=100μA, 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=100μA, 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	100		320	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=500mA, I_B=20mA			0.5	V
base-emitter voltage	V_{BE}	V_{CE}=1V, I_C=10mA	0.5		0.8	V
Transition frequency	f_T	V_{CB}=5V, I_C=10mA, f=100MHz		120		MHz
Collector output capacitance	C_{ob}	V_{CB}=10V, I_E=0, f=1MHz		13		pf

5.Classification of h_{FE}

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

6.Typical Characterisitics

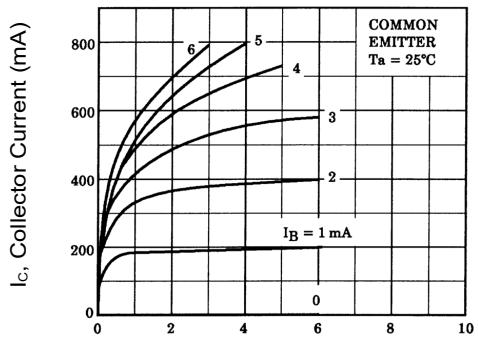


Figure 1: I_C-V_{CE}

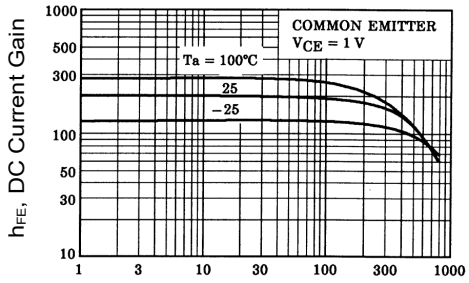


Figure 2: h_{FE} —— I_C

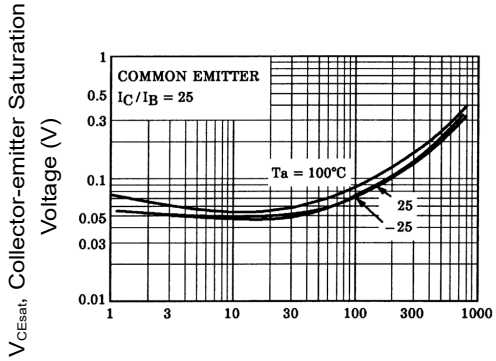


Figure 3: V_{CEsat} —— I_C

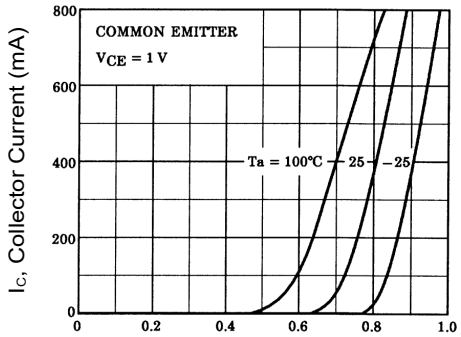


Figure 4: I_C —— V_{BE}

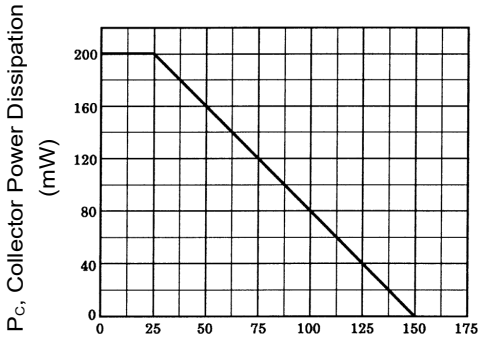
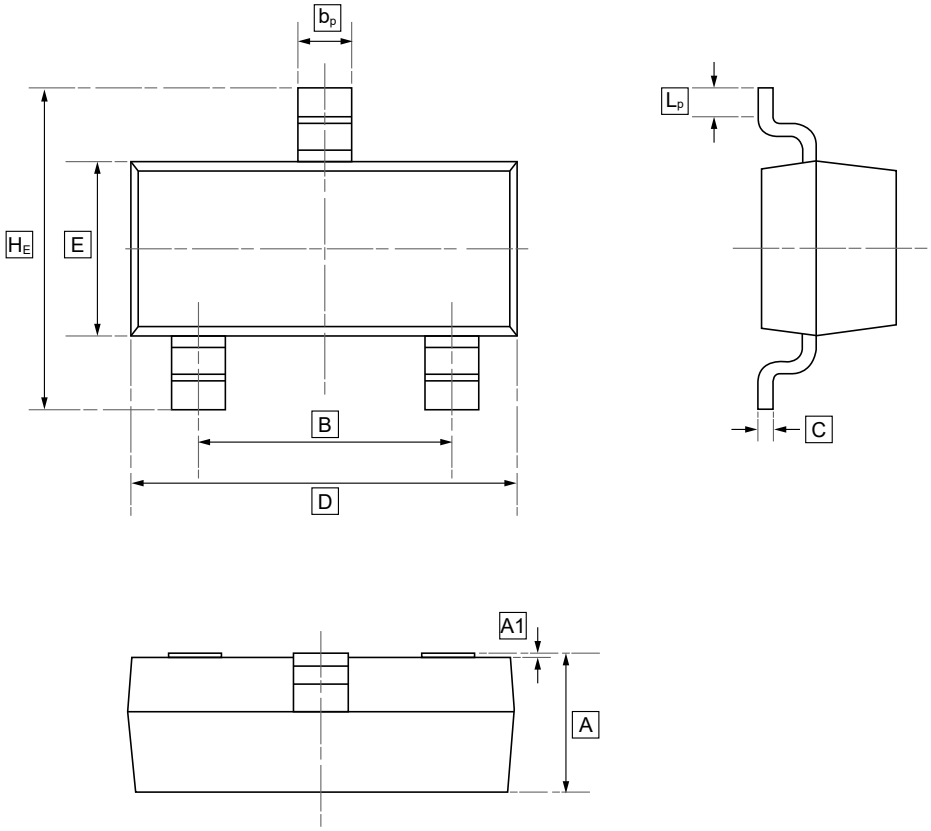


Figure 5: P_C —— T_A

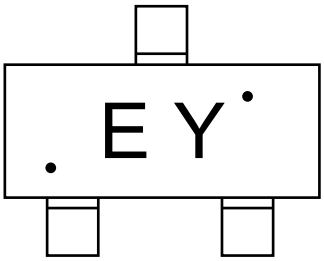
7.SOT-23 Package Outline Dimensions



DIMENSIONS (mm are the original dimensions)

Symbol	A	B	b_p	C	D	E	H_E	A1	L_p
Min	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20
Max	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50

8.Ordering information



Order Code	Package	Base QTY	Delivery Mode
UMW 2SC3265	SOT-23	3000	Tape and reel

9.Disclaimer

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