

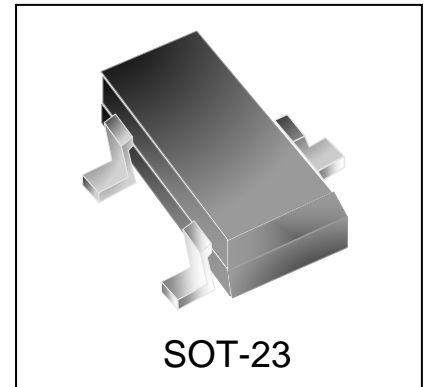
NPN Silicon Transistor

Features

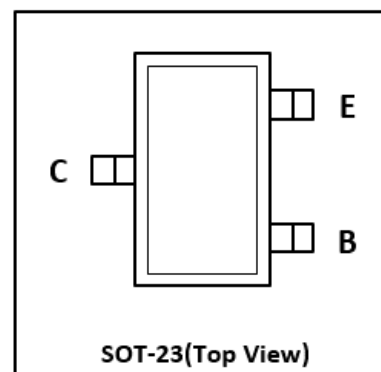
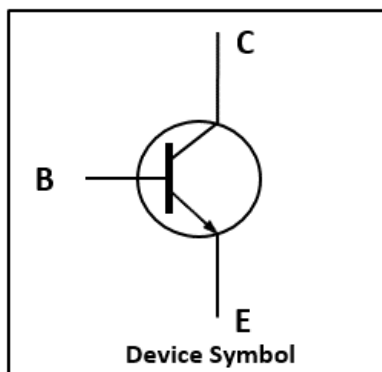
- Complementary to WT8550
- Small Package
- Collector Current: $I_C=0.8A$

Mechanical Characteristics

- SOT-23 Package
- Marking : Making Code
- RoHS Compliant



Schematic & PIN Configuration



Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	40	V
Collector Emitter Voltage	V_{CEO}	25	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current	I_C	800	mA
Collector Power Dissipation	P_C	300	mW
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55 ~ 150	°C

Electrical Characteristics (T_a=25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	V _{(BR)CBO}	I _C = 100μA, I _E = 0	40	-	-	V
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C = 1mA, I _B = 0	25	-	-	V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I _E = 100μA, I _C = 0	5	-	-	V
Collector Cut-Off Current	I _{CBO}	V _{CB} = 40V, I _E = 0	-	-	100	nA
Collector Cut-Off Current	I _{CEO}	V _{CE} = 20V, I _B = 0	-	-	100	nA
Emitter Cut-Off Current	I _{EBO}	V _{EB} = 5V, I _C = 0	-	-	100	nA
DC Current Gain	h _{FE(1)}	V _{CE} = 1V, I _C = 50mA	200	-	350	-
	h _{FE(2)}	V _{CE} = 1V, I _C = 500mA	50	-	-	-
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = 500mA, I _B = 50mA	-	-	0.6	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C = 500mA, I _B = 50mA	-	-	1.2	V
Transition Frequency	f _T	V _{CE} = 6V, I _C = 20mA, f = 30MHz	150	-	-	Hz

Typical Characteristics

Figure 1. Static Characteristics

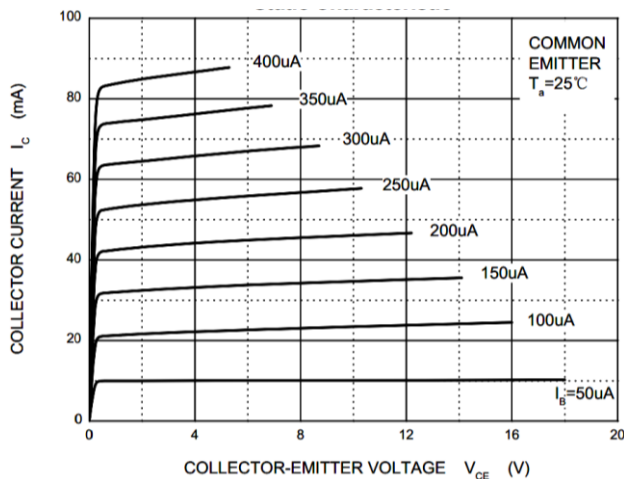


Figure 3. V_{CE(sat)} vs. I_C

Figure 2. h_{FE} vs. I_C

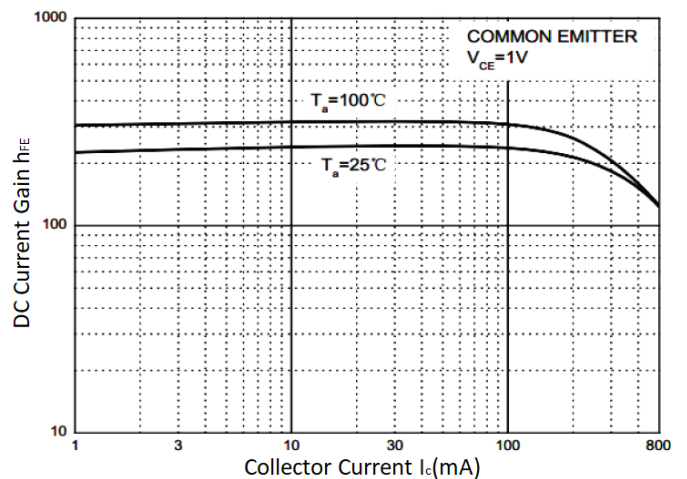


Figure 4. V_{BE(sat)} vs. I_C

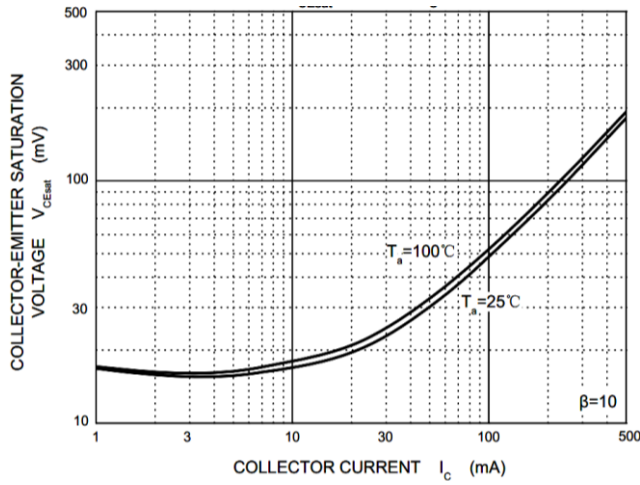


Figure 5. I_C vs. V_{BE}

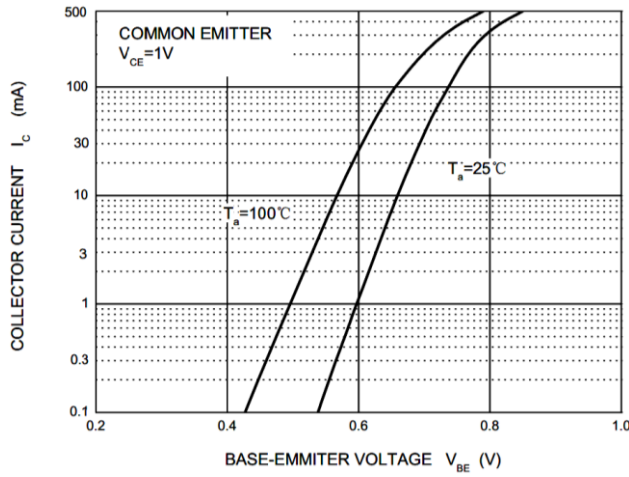


Figure 7. f_T vs. I_C

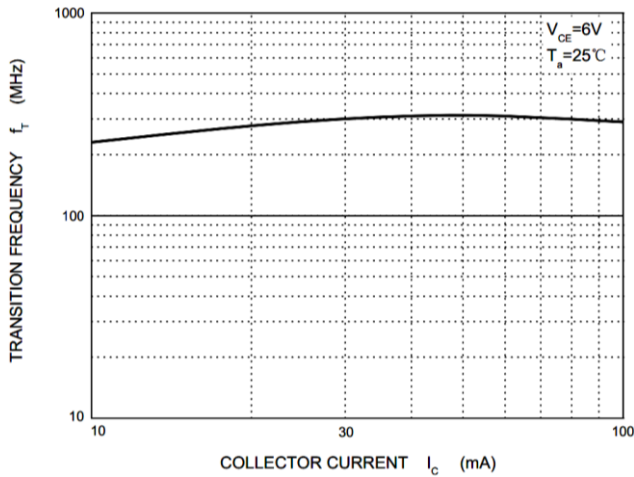


Figure 8. P_C vs. T_a

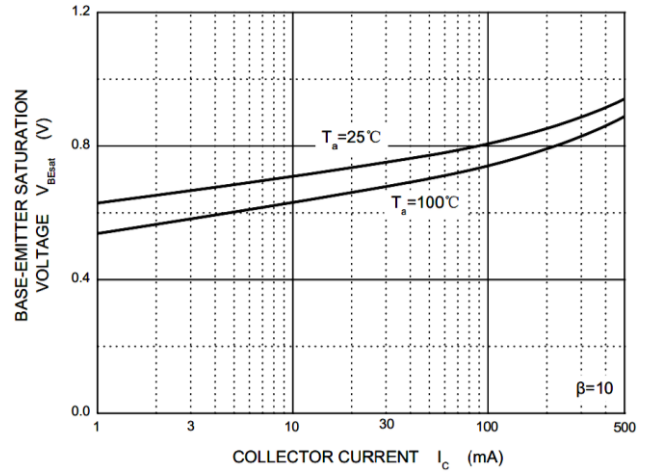
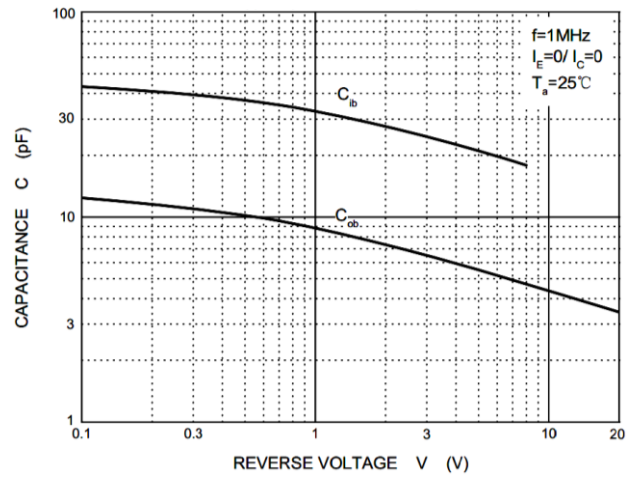


Figure 6. C_{ob}/C_{ib} vs. V_{CB}/V_{EB}



Outline Drawing – SOT-23

PACKAGE OUTLINE

SOT-23

DIMENSIONS				
SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	0.90	1.15	0.035	0.045
A1	0.00	0.10	0.000	0.004
b	0.30	0.50	0.012	0.020
c	0.08	0.15	0.003	0.006
D	2.80	3.00	0.110	0.118
E	2.25	2.55	0.089	0.100
E1	1.20	1.40	0.047	0.055
e	0.95 BSC		0.0374 BSC	
e1	1.80	2.00	0.071	0.079
L	0.45	0.65	0.018	0.026
θ	0	8°	0	8°

DIMENSIONS		
DIM	INCHES	MILLIMETERS
M	0.080	2.02
C	0.032	0.80
Z	0.111	2.82
e	0.037 BSC	0.95 BSC
e1	0.075 BSC	1.90 BSC
b	0.032	0.80

Notes

1. Dimensioning and tolerances per ANSI Y14.5M, 1985.
2. Controlling Dimension: Inches
3. Pin 3 is the cathode (Unidirectional Only).
4. Dimensions are exclusive of mold flash and metal burrs.

Marking Codes

Part Number	WT8050
Marking Code	

Package Information

Qty: 3k/Reel

CONTACT INFORMATION

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For additional information, please contact your local Sales Representative.

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*Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.*

单击下面可查看定价，库存，交付和生命周期等信息

[>>WAY-ON\(维安\)](#)