

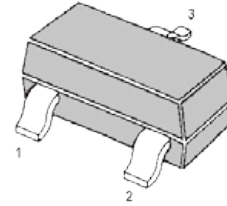
SOT-23 Plastic-Encapsulate Transistors

PNP Darlingon Transistor

MARKING CODE: A63:2U

A64:2V

For general purpose application, darlington transistor



SOT-23

1. BASE 2. EMITTER 3. COLLECTOR

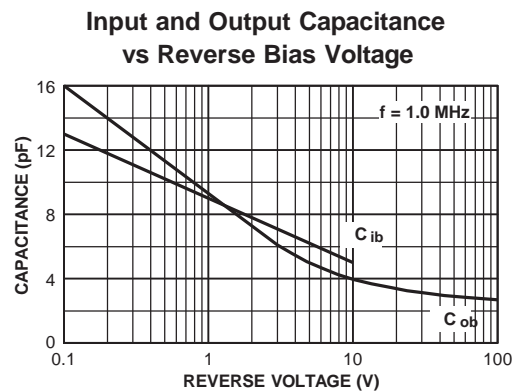
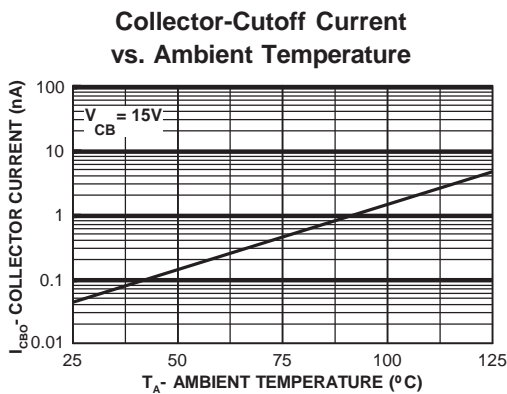
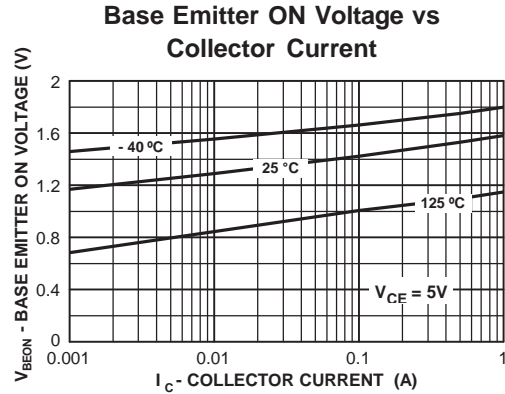
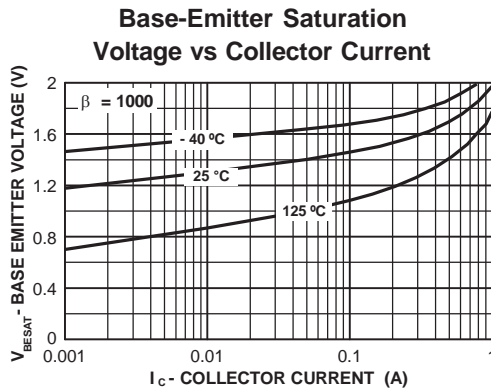
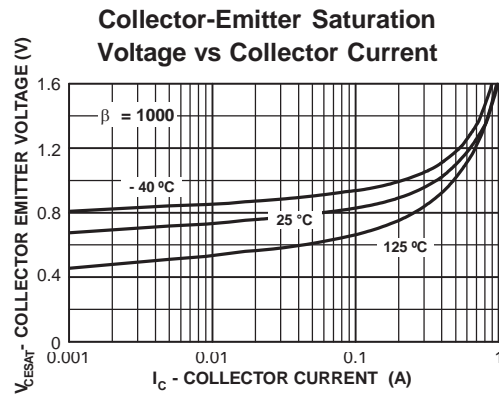
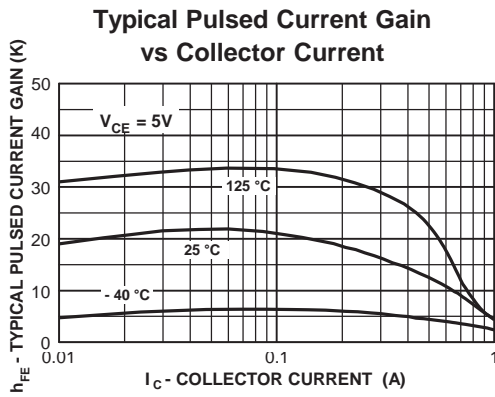
Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	30	V
Collector Emitter Voltage	$-V_{CEO}$	30	V
Emitter Base Voltage	$-V_{EBO}$	10	V
Collector Current	$-I_C$	500	mA
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_S	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain				
at $-V_{CE} = 5\text{ V}$, $-I_C = 10\text{ mA}$	MMBTA63	h_{FE}	5000	-
at $-V_{CE} = 5\text{ V}$, $-I_C = 10\text{ mA}$	MMBTA64	h_{FE}	10000	-
at $-V_{CE} = 5\text{ V}$, $-I_C = 100\text{ mA}$	MMBTA63	h_{FE}	10000	-
at $-V_{CE} = 5\text{ V}$, $-I_C = 100\text{ mA}$	MMBTA64	h_{FE}	20000	-
Collector Cutoff Current at $-V_{CB} = 30\text{ V}$	$-I_{CBO}$	-	100	nA
Emitter Cutoff Current at $-V_{EB} = 10\text{ V}$	$-I_{EBO}$	-	100	nA
Collector Emitter Breakdown Voltage at $-I_C = 100\text{ }\mu\text{A}$	$-V_{(BR)CEO}$	30	-	V
Collector Emitter Saturation Voltage at $-I_C = 100\text{ mA}$, $-I_B = 0.1\text{ mA}$	$-V_{CE(sat)}$	-	1.5	V
Base Emitter On Voltage at $-V_{CE} = 5\text{ V}$, $-I_C = 100\text{ mA}$	$-V_{BE(on)}$	-	2	V
Transition Frequency at $-V_{CE} = 5\text{ V}$, $I_E = 10\text{ mA}$	f_T	125	-	MHz

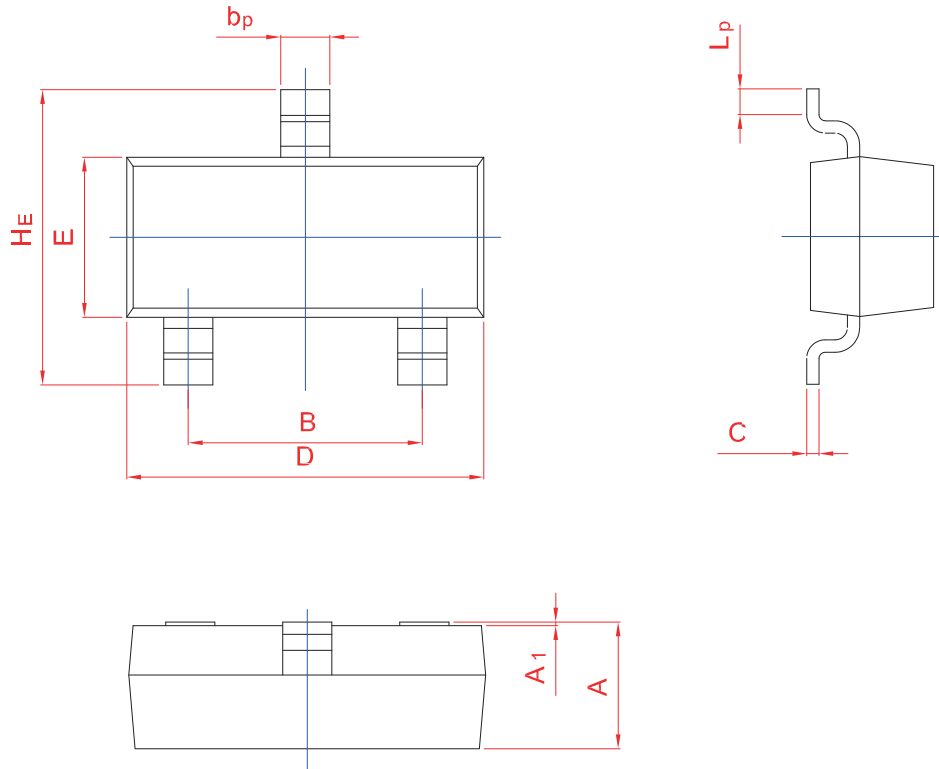
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	b_p	C	D	E	H_E	A_1	L_p
mm	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50
	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20

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