

● FEATURES

Power dissipation

$$P_{CM}: 0.33W \text{ (} T_{amb}=25^{\circ}C \text{)}$$

Collector current

$$I_{CM}: 0.2A$$

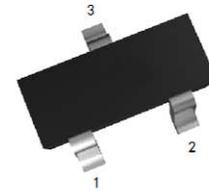
Collector-base voltage

$$V_{(BR)CBO}: 30V$$

Operating and storage junction temperature range

$$T_J, T_{stg}: -55^{\circ}C \text{ to } +150^{\circ}C$$

SOT-23



1: Base
2: Emitter
3: Collector

● ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=10 \mu A, I_E=0$	30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10 \mu A, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=20V, I_E=0$			0.05	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=3V, I_C=0$			0.05	μA
DC current gain	H_{FE}	$V_{CE}=1V, I_C=2mA$	120		360	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=50mA, I_B=5mA$			0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=50mA, I_B=5mA$			0.95	V
Transition frequency	f_T	$V_{CE}=20V, I_C=10mA$ $f=100MHz$	300			MHz

Marking	FMMT4124: 2C
---------	--------------

Typical Characteristics

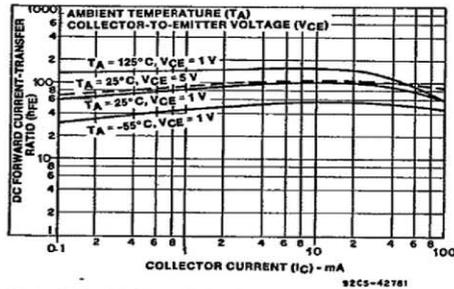


Fig. 1 — Typical dc forward current transfer ratio characteristics for 2N4123.

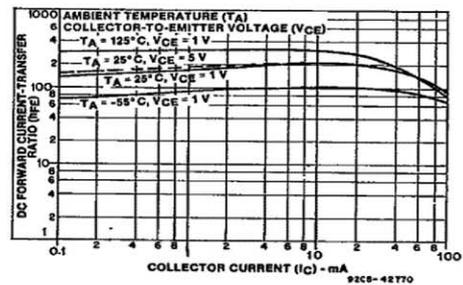


Fig. 2 — Typical dc forward current transfer ratio characteristics for 2N4124.

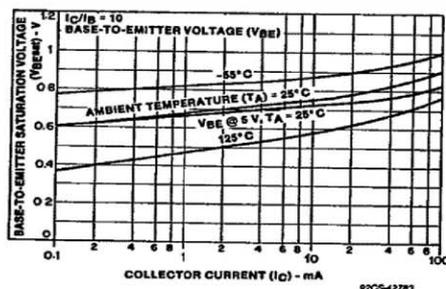


Fig. 3 — Typical base-to-emitter saturation voltage characteristics for 2N4123 and 2N4124.

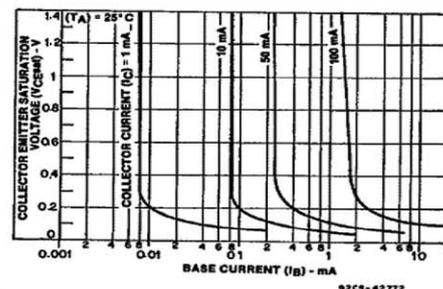


Fig. 4 — Typical collector-to-emitter saturation voltage characteristics for 2N4124 and 2N4123.

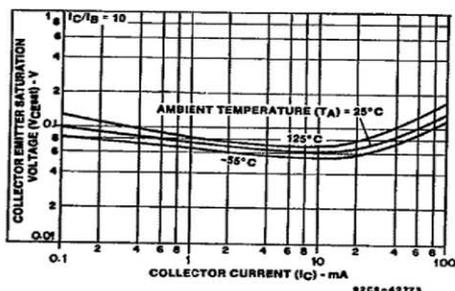


Fig. 5 — Typical collector-to-emitter saturation voltage characteristics for 2N4123.

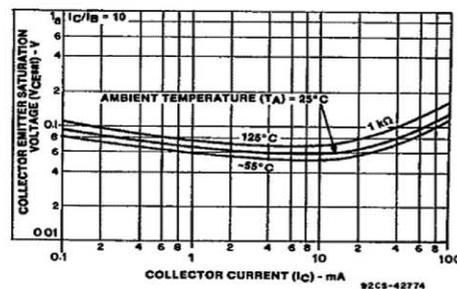


Fig. 6 — Typical collector-to-emitter saturation voltage characteristics for 2N4124.

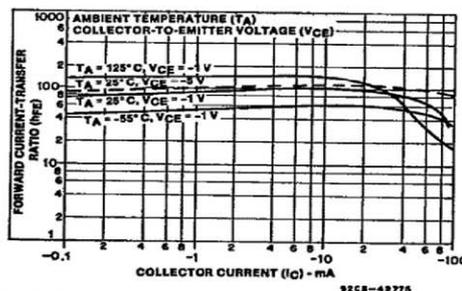


Fig. 7 — Typical dc forward-current transfer ratio characteristics for 2N4125.

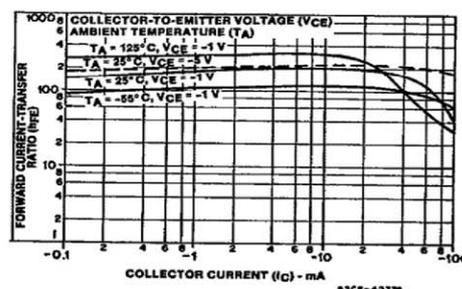


Fig. 8 — Typical dc forward-current transfer ratio characteristics for 2N4126.

Typical Characteristics

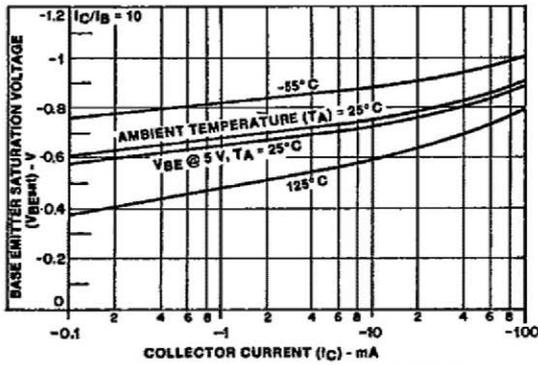


Fig. 9—Typical base-to-emitter saturation voltage characteristics for 2N4125 and 2N4126.

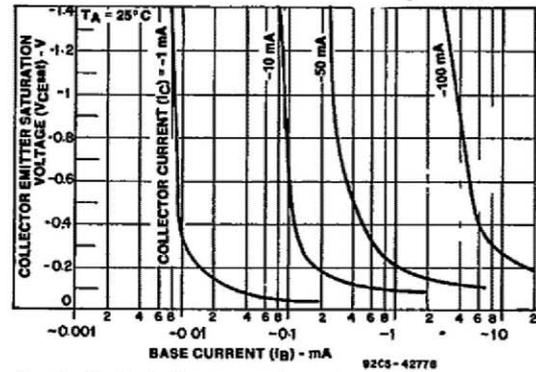


Fig. 10—Typical collector-to-emitter saturation voltage characteristics for 2N4125 and 2N4126.

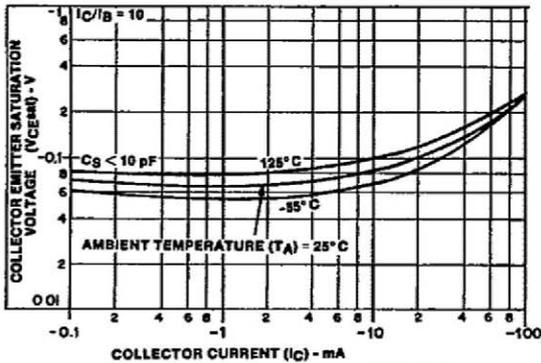


Fig. 11—Typical collector-to-emitter saturation voltage characteristics for 2N4125.

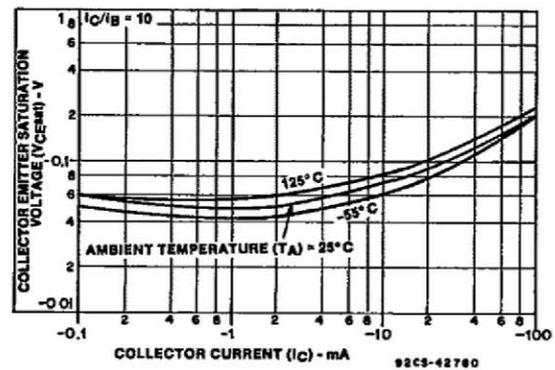


Fig. 12—Typical collector-to-emitter saturation voltage characteristics for 2N4126.