



FMMT4124 TRANSISTOR (NPN)

FEATURES

Power dissipation

P_{CM} : 0.33W ($T_{amb}=25$)

Collector current

I_{CM} : 0.2A

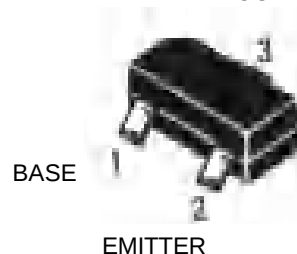
Collector-base voltage

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

Operating and storage junction temperature range

T_J , T_{stg} : -55 to +150

COLLECTOR



BASE

EMITTER

SOT—23

Marking : 2C

ELECTRICAL CHARACTERISTICS ($T_{amb}=25$ 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



Typical Characteristics

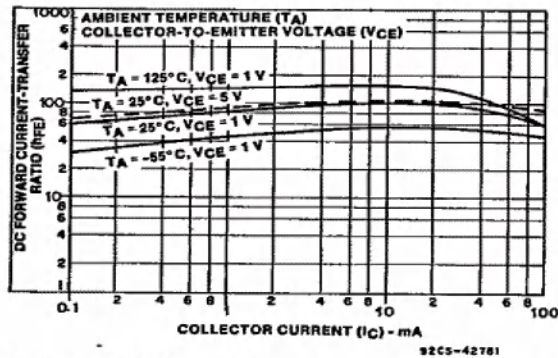


Fig. 1—Typical dc forward current transfer ratio characteristics for 2N4123.

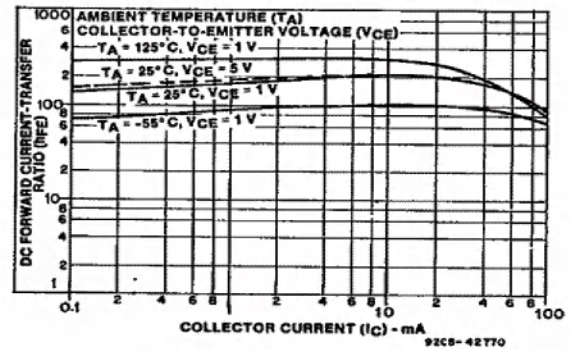


Fig. 2—Typical dc forward current transfer ratio characteristics for 2N4124.

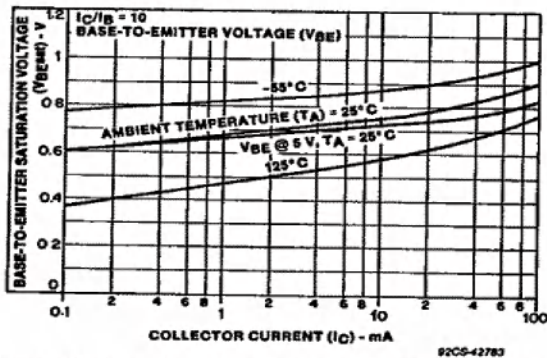


Fig. 3—Typical base-to-emitter saturation voltage characteristics for 2N4123 and 2N4124.

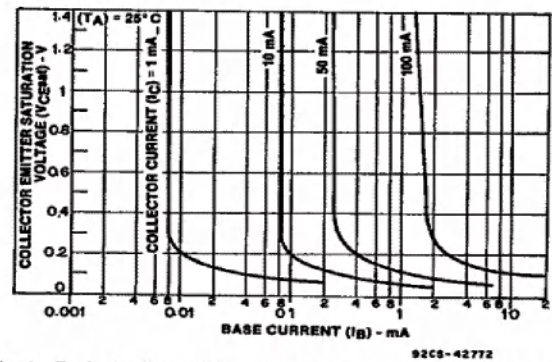


Fig. 4—Typical collector-to-emitter saturation voltage characteristics for 2N4124 and 2N4123.

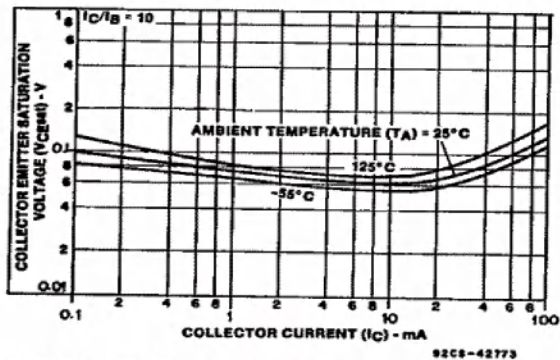


Fig. 5—Typical collector-to-emitter saturation voltage characteristics for 2N4123.

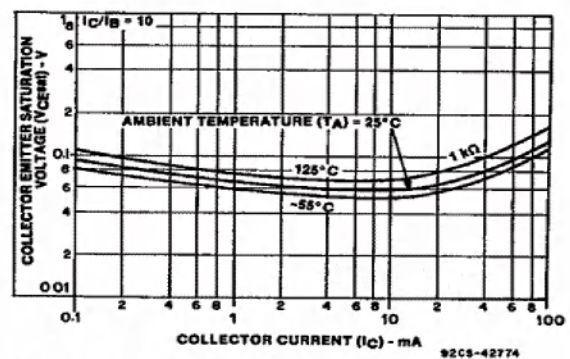


Fig. 6—Typical collector-to-emitter saturation voltage characteristics for 2N4124.

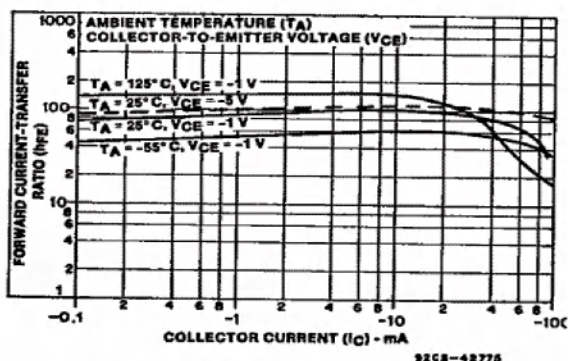


Fig. 7—Typical dc forward-current transfer ratio characteristics for 2N4125.

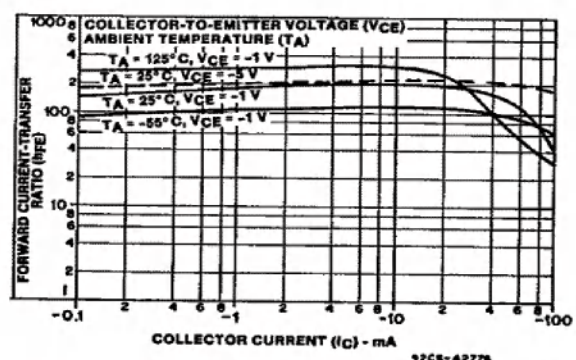


Fig. 8—Typical dc forward-current transfer ratio characteristics for 2N4126.



Typical Characteristics

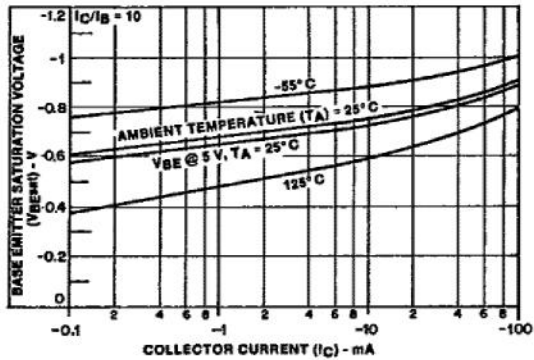


Fig. 9—Typical base-to-emitter saturation voltage characteristics for 2N4125 and 2N4126.

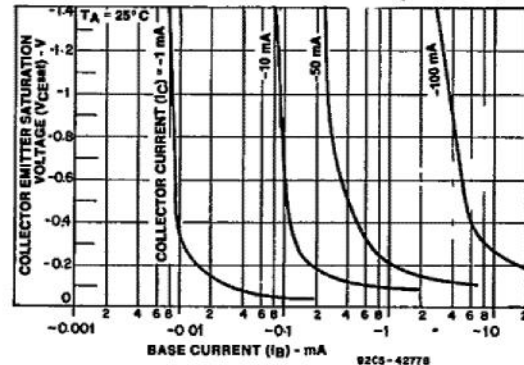


Fig. 10—Typical collector-to-emitter saturation voltage characteristics for 2N4125 and 2N4126.

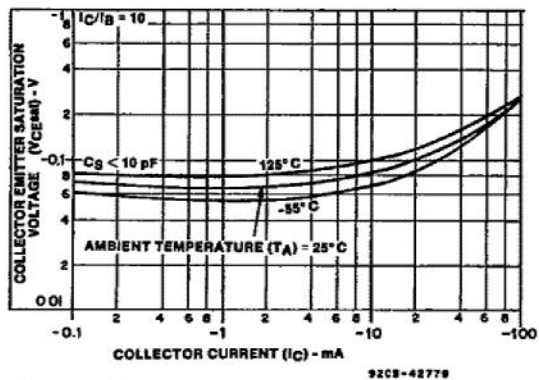


Fig. 11—Typical collector-to-emitter saturation voltage characteristics for 2N4125.

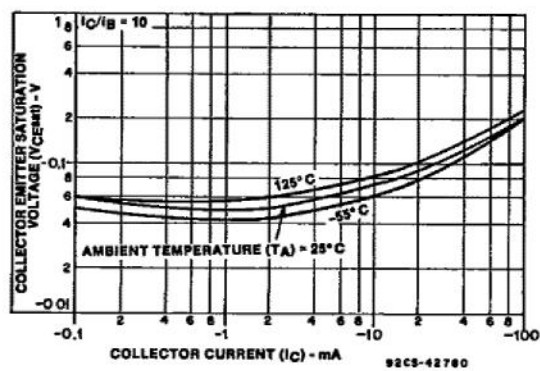


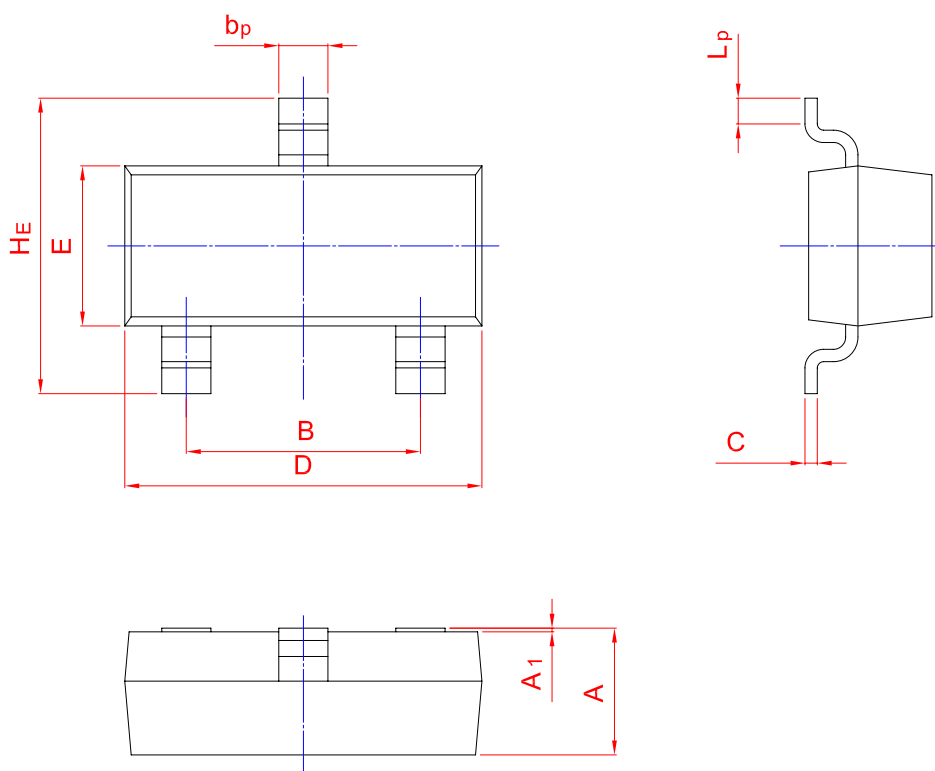
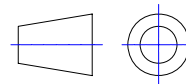
Fig. 12—Typical collector-to-emitter saturation voltage characteristics for 2N4126.



PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	bp	C	D	E	HE	A1	Lp
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20