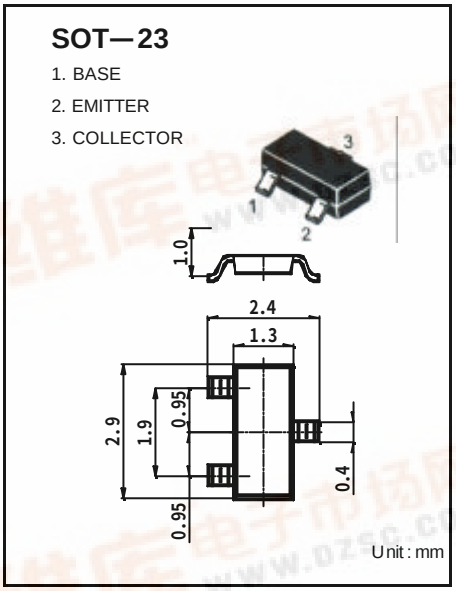
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-23 Plastic-Encapsulate Transistors

FMMT4124 TRANSISTOR（NPN）



FEATURES

Power dissipation

P_{CM}： 0.33W（Tamb=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℃

ELECTRICAL CHARACTERISTICS（Tamb=25℃ unless otherwise specified）

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	Ic=10μA， I_E=0	30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	Ic= 1mA， I_B=0	25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E= 10μA， I_C=0	5			V
Collector cut-off current	I_{CBO}	V_{CB}= 20 V， 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=50 mA, I_B= 5mA			0.3	V
Base-emitter saturation voltage	V_{BE}(sat)	I_C=50 mA, 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

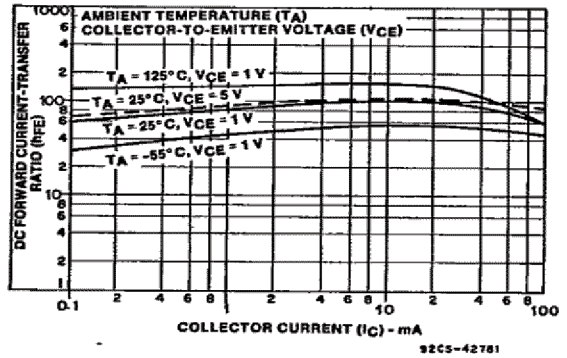


Fig. 1 — Typical dc forward current transfer ratio characteristics for

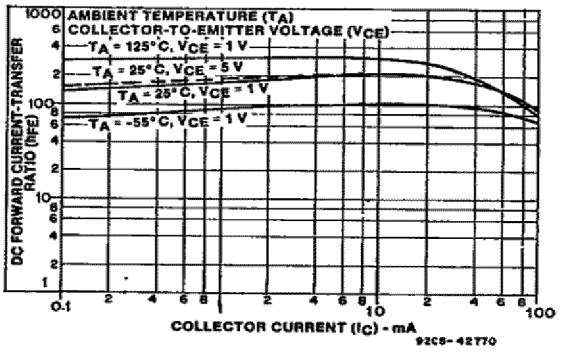


Fig. 2 — Typical dc forward current transfer ratio characteristics for

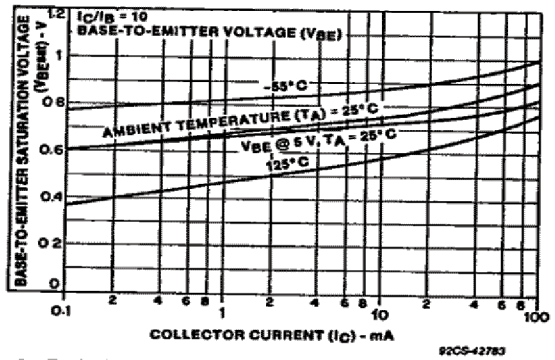


Fig. 3 — Typical base-to-emitter saturation voltage characteristics for 2N4123 and 2N4124.

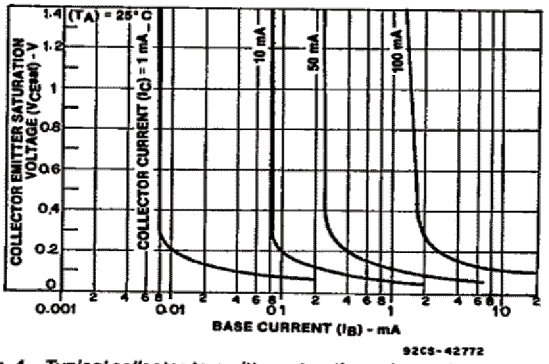


Fig. 4 — Typical collector-to-emitter saturation voltage characteristics for 2N4124 and 2N4123.

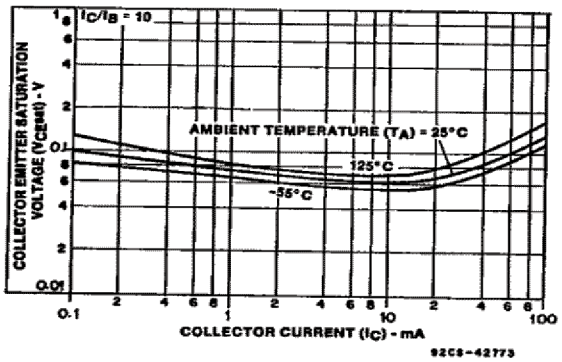


Fig. 5 — Typical collector-to-emitter saturation voltage characteristics for 2N4123.

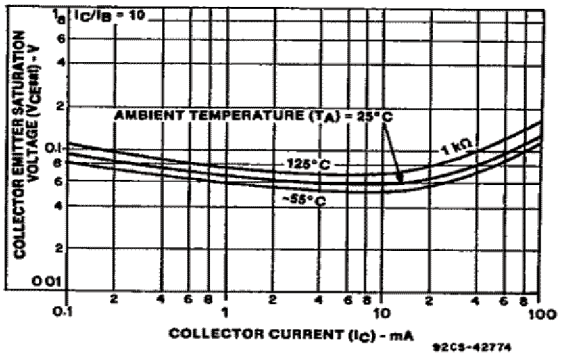


Fig. 6 — Typical collector-to-emitter saturation voltage characteristics for 2N4124.

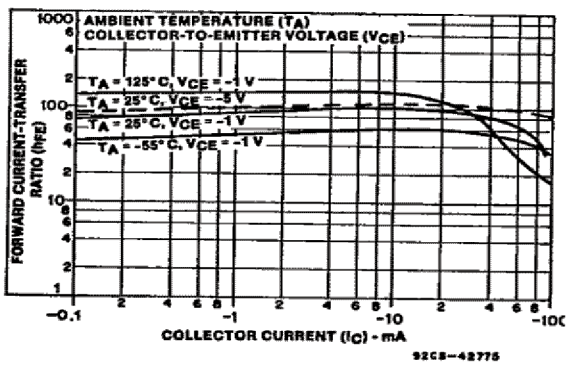


Fig. 7 — Typical dc forward-current transfer ratio characteristics for 2N4125.

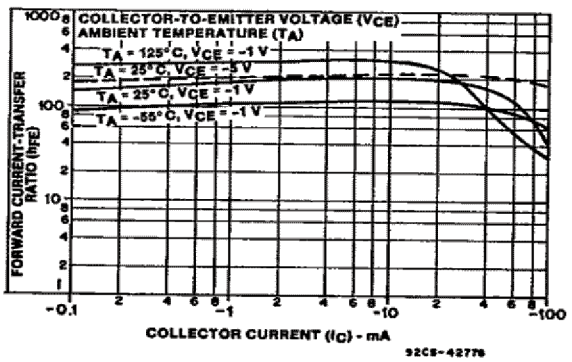


Fig. 8 — Typical dc forward-current transfer ratio characteristics for 2N4126.

Typical Characteristics

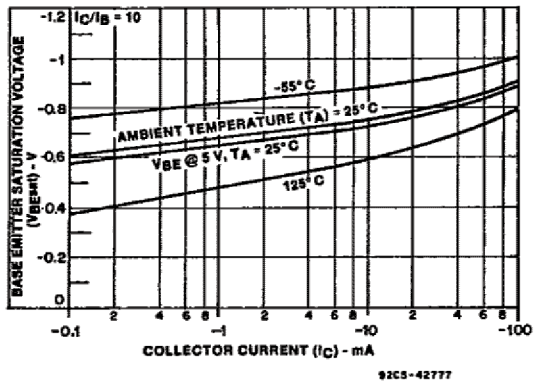


Fig. 9—Typical base-to-emitter saturation voltage characteristics for 2N4125 and 2N4126.

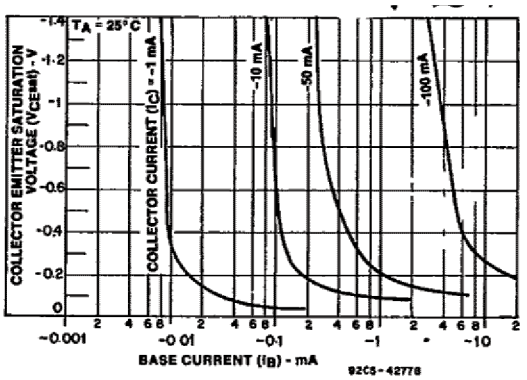


Fig. 10—Typical collector-to-emitter saturation voltage characteristics for 2N4125 and 2N4126.

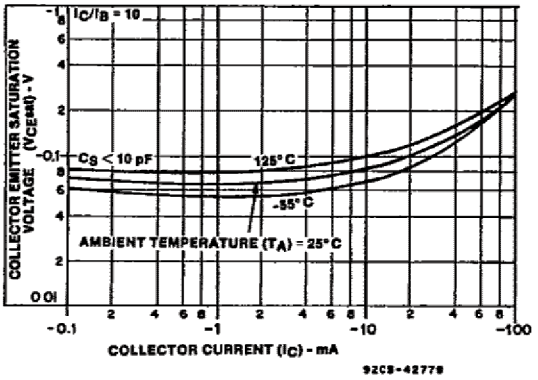


Fig. 11—Typical collector-to-emitter saturation voltage characteristics for 2N4125.

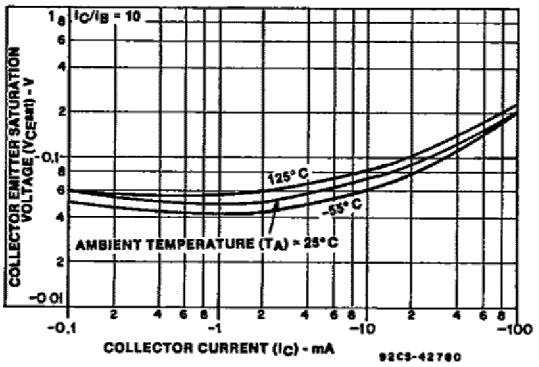


Fig. 12—Typical collector-to-emitter saturation voltage characteristics for 2N4126.