

TRANSISTOR (PNP)
Plastic-Encapsulate Transistor
FEATURES

Power dissipation

$$P_{CM} : 0.15W (T_{amb}=25^{\circ}C)$$

Collector current

$$I_{CM} : -0.5A$$

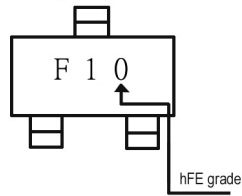
Collector-base Voltage

$$V_{(BR)CBO} : -35V$$

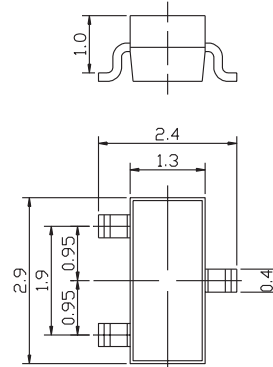
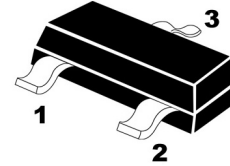
Operating and storage junction temperature range

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

Marking


SOT-23

1. BASE
2. EMITTER
3. COLLECTOR



Unit:mm

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ELECTRICAL CHARACTERISTICS

Parameters	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100 \mu A, I_E=0$			-35	V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-0.1mA, I_B=0$			-30	V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100 \mu A, I_C=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-35V, I_E=0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-5V, I_C=0$			-0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=-1V, I_C=-100mA$	70		240	
	$h_{FE(2)}$	$V_{CE}=-6V, I_C=-400mA$	25			
Collector-emitter saturation voltage	V_{CEsat}	$I_C=-100mA, I_B=-10mA$		-0.1	-0.25	V

CLASSIFICATION OF $h_{FE(1)}$

Rank	O	Y
Range	70-140	120-240

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