

SOT-23 Plastic-Encapsulate Transistors

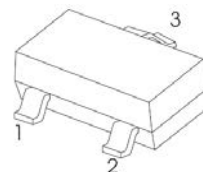
TRANSISTOR (PNP)

FEATURES

- Suitable for driver stage of small motor
- Small package

SOT-23

1. BASE
2. EMITTER
3. COLLECTOR



Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-15	V
Collector-emitter voltage	V_{CEO}	-15	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_C	-800	mA
Base current	I_B	-160	mA
Collector power dissipation	P_C	200	mW
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	-55 to 150	°C

Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	I_{CBO}	$V_{CB} = -15\text{ V}, I_E = 0$	—	—	-100	nA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5\text{ V}, I_C = 0$	—	—	-100	nA
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -10\text{ mA}, I_B = 0$	-15	—	—	V
DC current gain	$h_{FE(1)}$	$V_{CE} = -1\text{ V}, I_C = -100\text{ mA}$	120	—	400	
	$h_{FE(2)}$	$V_{CE} = -1\text{ V}, I_C = -800\text{ mA}$	40	—	—	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -400\text{ mA}, I_B = -8\text{ mA}$	—	—	-0.2	V
Base-emitter voltage	V_{BE}	$V_{CE} = -1\text{ V}, I_C = -10\text{ mA}$	-0.5	—	-0.8	V
Transition frequency	f_T	$V_{CE} = -5\text{ V}, I_C = -10\text{ mA}$	—	120	—	MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10\text{ V}, I_E = 0, f = 1\text{ MHz}$	—	13	—	pF

Classification of hfe

Type	2SA1362-Y	2SA1362-G
Range	120-240	200-400
Marking	AEY	AEG

Typical Characteristics

