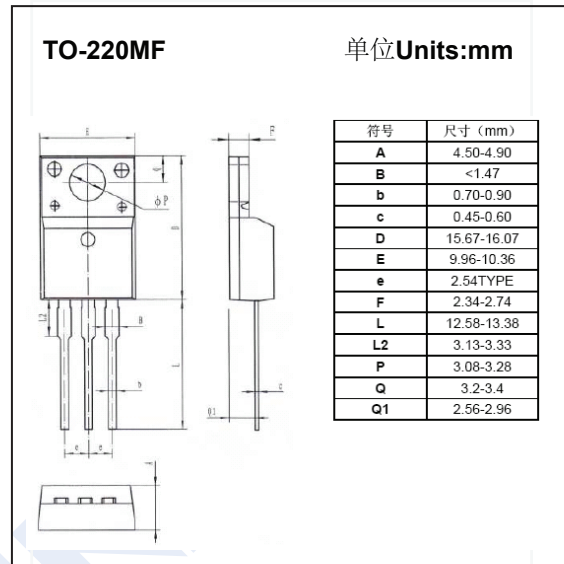
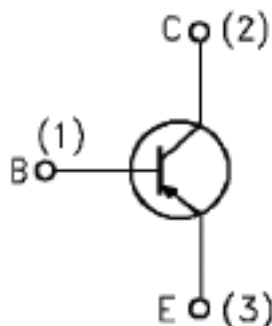


PNP Transistors

2SA1837

■ Features

- High collector voltage: $V_{CEO} = -230V$ (min)
- Complementary to 2SC4793
- High transition frequency : $f_T = 70MHz$ (Typ.)
- RoHS product

■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-230	V
Collector - Emitter Voltage	V_{CEO}	-230	
Emitter - Base Voltage	V_{EBO}	-5	
Collector Current - Continuous	I_C	-1	A
Base Current	I_B	-0.1	
Collector Power Dissipation	P_C	2	W
		20	
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	62.5	$^\circ C/W$
Thermal Resistance Junction Case	$R_{\theta JC}$	6.25	
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature range	T_{stg}	-55 to +150	

■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-emitter breakdown voltage	V_{CEO}	$I_C = -10\text{ mA}, I_B = 0$	-230			V
Collector-base cut-off current	I_{CBO}	$V_{CB} = -230\text{ V}, I_E = 0$			-1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5\text{ V}, I_C = 0$			-1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -0.5\text{ A}, I_B = -0.05\text{ A}$			-1.5	V
Base - emitter voltage	$V_{BE(on)}$	$V_{CE} = -5\text{ V}, I_C = -0.5\text{ A}$			-1	
DC current gain	h_{FE}	$V_{CE} = -5\text{ V}, I_C = 0.1\text{ A}$	100		270	
Collector output capacitance	C_{ob}	$V_{CB} = -10\text{ V}, I_E = 0, f = 1\text{ MHz}$		30		pF
Transition frequency	f_T	$V_{CE} = -10\text{ V}, I_C = -0.1\text{ A}$		70		MHz

PNP Transistors

2SA1837

■ Typical Characteristics

