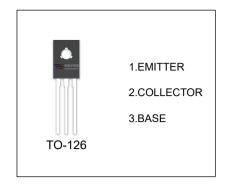


BD136 / BD138 / BD140 TRANSISTOR (PNP)

FEATURES

- High Current
- Complement To BD135, BD137 And BD139



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
BD136	TO-126	Bulk	200pcs/Bag
BD138	TO-126	Bulk	200pcs/Bag
BD140	TO-126	Bulk	200pcs/Bag
BD136-TU	TO-126	Tube	60pcs/Tube
BD138-TU	TO-126	Tube	60pcs/Tube
BD140-TU	TO-126	Tube	60pcs/Tube

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter		Value	Unit
		BD136	-45	
V _{CBO}	Collector-Base Voltage	BD138	-60	V
		BD140	-80	
		BD136	-45	
$V_{\sf CEO}$	Collector-Emitter Voltage	BD138	-60	V
		BD140	-80	
V_{EBO}	Emitter-Base Voltage		-5	V
Ic	Collector Current		-1.5	Α
Pc	Collector Power Dissipation		1.25	W
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient		100	°C/W
T_J , T_{stg}	Junction Temperature		-55~+150	$^{\circ}$



T_a =25 $^{\circ}$ C unless otherwise specified

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I_{C} = -0.1mA, I_{E} =0				
BD136			-45			V
BD138			-60			V
BD140			-80			
Collector-emitter sustaining voltage	V _{CEO(SUS)}	I _C =-0.03A,I _B =0				
BD136			-45			V
BD138			-60			V
BD140			-80			
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-0.1mA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-30V,I _E =0			-0.1	μA
Emitter cut-off current	I _{EBO}	V_{EB} =-5 V , I_{C} =0			-10	μA
	h _{FE(1)} *	V _{CE} =-2V, I _C =-150mA	40		250	
DC current gain	h _{FE(2)} *	V _{CE} =-2V, I _C =-5mA	25			
	h _{FE(3)} *	V _{CE} =-2V, I _C =-500mA	25			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-500mA,I _B =-50mA			-0.5	V
Base-emitter voltage	V _{BE}	V _{CE} =-2V, I _C =-500mA			-1	V

^{*}Pulse test: pulse width ≤350µs, duty cycle≤ 2.0%.

CLASSIFICATION OF $h_{\text{FE}(1)}$

RANK	6	10	16
RANGE	40-100	63-160	100-250



