

BD136/BD138/BD140 TRANSISTOR (PNP)

FEATURES

Power dissipation

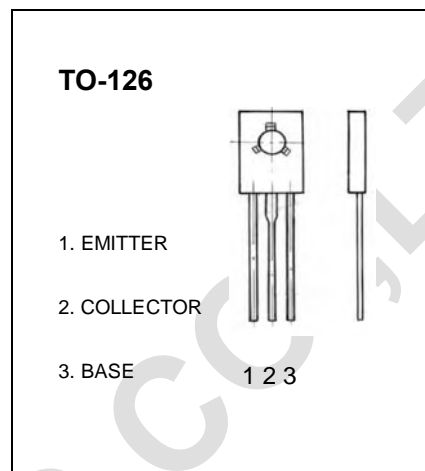
P_{CM} : 1.25 W ($T_{amb}=25^{\circ}C$)

Collector current

I_{CM} : -1.5 A

Operating and storage junction temperature range

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



ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100\mu A, I_E=0$	BD136	-45		V
			BD138	-60		
			BD140	-80		
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-30mA, I_B=0$	BD136	-45		V
			BD138	-60		
			BD140	-80		
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100\mu A, I_C=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-30V, I_E=0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-5V, I_C=0$			-10	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=-2V, I_C=-5mA$	25			
	$h_{FE(2)}$	$V_{CE}=-2V, I_C=-150mA$	BD136	40	250	
			BD138 BD140	40	160	
$h_{FE(3)}$	$V_{CE}=-2V, I_C=-500mA$	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

CLASSIFICATION OF $h_{FE(2)}$

Rank	6	10	16
Range	40-100	63-160	100-250