

### BC327/ BC328 TRANSISTOR (PNP)

GENERAL PURPOSE APPLICATION.

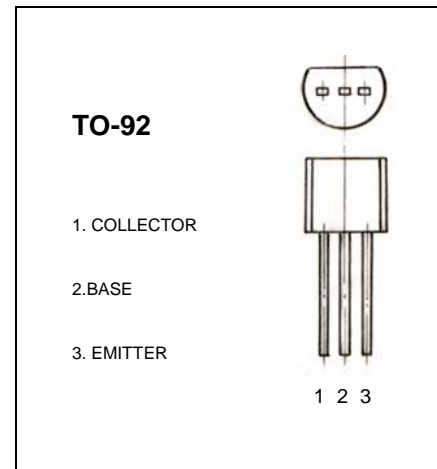
SWITCHING APPLICATION.

#### FEATURES

- High Current :  $I_C = -800\text{mA}$ .
- DC Current Gain :  $h_{FE} = 100 \sim 630$  ( $V_{CE} = -1\text{V}$ ,  $I_C = -100\text{mA}$ ).
- For Complementary with NPN type BC337.

#### MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Units
$V_{CBO}$	Collector-Base Voltage <b>BC327</b>	-50	V
	<b>BC328</b>	-30	
$V_{CEO}$	Collector-Emitter Voltage <b>BC327</b>	-45	V
	<b>BC328</b>	-25	
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current -Continuous	-800	mA
$P_C$	Collector Power Dissipation	625	mW
$T_j$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature	-55-150	$^\circ\text{C}$



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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage <b>BC327</b> <b>BC328</b>	$V_{CBO}$	$I_C = -100\mu\text{A}$ , $I_E = 0$	-50 -30			V
Collector-emitter breakdown voltage <b>BC327</b> <b>BC328</b>	$V_{CEO}$	$I_C = -10\text{mA}$ , $I_B = 0$	-45 -25			V
Emitter-base breakdown voltage	$V_{EBO}$	$I_E = -10\mu\text{A}$ , $I_C = 0$	-5			V
Collector cut-off current <b>BC327</b> <b>BC328</b>	$I_{CBO}$	$V_{CB} = -45\text{V}$ , $I_E = 0$ $V_{CB} = -25\text{V}$ , $I_E = 0$			-0.1 -0.1	$\mu\text{A}$
Collector cut-off current <b>BC327</b> <b>BC328</b>	$I_{CEO}$	$V_{CE} = -40\text{V}$ , $I_B = 0$ $V_{CE} = -20\text{V}$ , $I_B = 0$			-0.2 -0.2	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -4\text{V}$ , $I_C = 0$			-0.1	$\mu\text{A}$
DC current gain	$h_{FE(1)}$	$V_{CE} = -1\text{V}$ , $I_C = -100\text{mA}$	100		630	
	$h_{FE(2)}$	$V_{CE} = -1\text{V}$ , $I_C = -300\text{mA}$	40			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500\text{mA}$ , $I_B = -50\text{mA}$			-0.7	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -500\text{mA}$ , $I_B = -50\text{mA}$			-1.2	V
Base-emitter voltage	$V_{BE}$	$V_{CE} = -1\text{V}$ , $I_C = -300\text{mA}$			-1.2	V
Transition frequency	$f_T$	$V_{CE} = -5\text{V}$ , $I_C = -10\text{mA}$ $f = 100\text{MHz}$	260			MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB} = -10\text{V}$ , $I_E = 0$ $f = 1\text{MHz}$		12		pF

#### CLASSIFICATION OF $h_{FE}$

Rank	16	25	40
Range	100-250	160-400	250-630