



**PRODUCT NAME :** PN3567 NPN General Purpose Transistor (Pack of 5)

**PRICE :** Rs 20.00

**SKU :** RM2019



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## DESCRIPTION

## Features

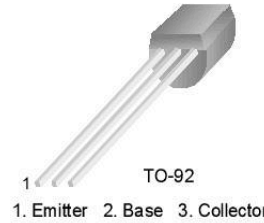
- Collector-Emitter Volt ( $V_{ce0}$ ): 40V
- Collector-Base Volt ( $V_{cb0}$ ): 80V
- Collector Current ( $I_c$ ): 0.6A
- $h_{fe}$ : 40-120 @ 150mA
- Power Dissipation ( $P_{tot}$ ): 625mW
- Current-Gain-Bandwidth ( $f_{total}$ ): -
- Type: NPN



## PN3567

### NPN General Purpose Amplifier

- This device is for use as a medium amplifier and switch requiring collector currents up to 300mA.
- Sourced from process 19.



### Absolute Maximum Ratings $T_A=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
$V_{CEO}$	Collector-Emitter Voltage	40	V
$V_{CBO}$	Collector-Base Voltage	80	V
$V_{EBO}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current - Continuous	600	mA
$T_J, T_{STG}$	Operating and Storage Junction Temperature Range	- 55 ~ 150	$^\circ\text{C}$

### Electrical Characteristics $T_A=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
<b>Off Characteristics</b>						
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage *	$I_C = 30\text{mA}, I_B = 0$	40			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	$I_C = 100\mu\text{A}, I_E = 0$	80			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E = 10\mu\text{A}, I_C = 0$	5			V
$I_{CBO}$	Collector Cut-off Current	$V_{CB} = 40\text{V}, I_E = 0$			50	nA
		$V_{CB} = 40\text{V}, I_E = 0, T_A = 75^\circ\text{C}$			5	$\mu\text{A}$
$I_{EBO}$	Emitter Cut-off Current	$V_{EB} = 4\text{V}, I_C = 0$			25	nA
<b>On Characteristics</b>						
$h_{FE}$	DC Current Gain	$V_{CE} = 1\text{V}, I_C = 150\text{mA}$	40		120	
		$V_{CE} = 1\text{V}, I_C = 30\text{mA}$	40			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage *	$I_C = 150\text{mA}, I_B = 15\text{mA}$			0.25	V
$V_{BE(on)}$	Base-Emitter On Voltage	$V_{CE} = 1\text{V}, I_C = 150\text{mA}$			1.1	V
<b>Small Signal Characteristics</b>						
$C_{obo}$	Output Capacitance	$V_{CB} = 10\text{V}, I_E = 0$			20	pF
$C_{ibo}$	Input Capacitance	$V_{EB} = 0.5\text{V}, I_C = 0$			80	

\* Pulse Test: Pulse Width  $\leq 300\text{ms}$ , Duty Cycle  $\leq 2.0\%$

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