



**PRODUCT NAME :** 2N4037 PNP Switching Transistor (Pack of 5)

**PRICE :** Rs 20.00

**SKU :** RM2054



## DESCRIPTION

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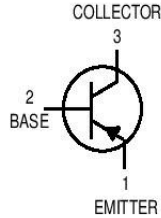
## Features

- Collector-Emitter Volt ( $V_{ce0}$ ): 40V
- Collector-Base Volt ( $V_{cb0}$ ): 60V
- Collector Current ( $I_c$ ): 1.0A
- hfe: 50-250 @ 150mA
- Power Dissipation ( $P_{tot}$ ): 1000mW
- Current-Gain-Bandwidth ( $f_{total}$ ): -
- Type: PNP

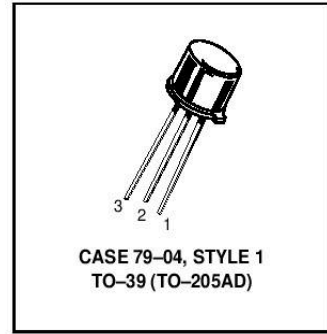
**MOTOROLA**  
**SEMICONDUCTOR TECHNICAL DATA**

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 by 2N4036/D

**General Purpose Transistors**  
**PNP Silicon**



**2N4036**  
**2N4037**



**MAXIMUM RATINGS**

Rating	Symbol	2N4036	2N4037	Unit
Collector-Emitter Voltage	$V_{CEO}$	-65	-40	Vdc
Collector-Base Voltage	$V_{CBO}$	-90	-60	Vdc
Emitter-Base Voltage	$V_{EBO}$	-7.0	-7.0	Vdc
Base Current	$I_B$	-0.5		Adc
Collector Current — Continuous	$I_C$	-1.0		Adc
Continuous Power Dissipation at or Below $T_C = 25^\circ\text{C}$ Linear Derating Factor	$P_D$	5.0 28.6	5.0 28.6	Watts mW/°C
Continuous Power Dissipation at or Below $T_A = 25^\circ\text{C}$ Linear Derating Factor	$P_D$	1.0 5.72	1.0 5.72	Watts mW/°C
Operating and Storage Junction Temperature Range	$T_J, T_{stg}$	-65 to +200		°C
Lead Temperature 1/16" from Case for 10 Seconds	$T_L$	230		°C

**THERMAL CHARACTERISTICS**

Characteristic	Symbol	2N4036	2N4037	Unit
Thermal Resistance, Junction to Case	$R_{\theta JC}$	35	35	°C/W

**ELECTRICAL CHARACTERISTICS** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
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**OFF CHARACTERISTICS**

Collector-Emitter Sustaining Voltage <sup>(1)</sup> ( $I_C = -100 \text{ mAdc}, I_B = 0$ )	2N4036 2N4037	$V_{CEO(sus)}$	-65 -40	— —	Vdc
Collector-Base Breakdown Voltage ( $I_C = -0.1 \text{ mAdc}$ )	2N4037	$V_{(BR)CBO}$	-60	—	Vdc
Collector Cutoff Current ( $V_{CE} = -85 \text{ Vdc}, V_{EB} = -1.5 \text{ Vdc}$ ) ( $V_{CE} = -30 \text{ Vdc}, V_{EB} = -1.5 \text{ Vdc}, T_C = 150^\circ\text{C}$ )	2N4036 2N4037	$I_{CEX}$	— —	-0.1 -100	mAdc
Collector Cutoff Current ( $V_{CB} = -90 \text{ Vdc}, I_E = 0$ ) ( $V_{CB} = -60 \text{ Vdc}, I_E = 0$ )	2N4036 2N4037	$I_{CBO}$	— —	-1.0 -0.25	$\mu\text{Adc}$
Emitter Cutoff Current ( $V_{EB} = -7.0 \text{ Vdc}, I_C = 0$ ) ( $V_{EB} = -5.0 \text{ Vdc}, I_C = 0$ )	2N4036 2N4037	$I_{EBO}$	— —	-10 -1.0	$\mu\text{Adc}$

1. Pulse Test: Pulse Width  $\leq 300 \mu\text{s}$ , Duty Cycle  $\leq 2.0\%$ .

