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

PRICE : Rs 20.00
SKU : RM2054

DESCRIPTION

Features

- Collector-Emitter Volt (Vceo): 40V
- Collector-Base Volt (Vcbo): 60V
- Collector Current (Ic): 1.0A
- hfe: 50-250 @ 150mA
- Power Dissipation (Ptot): 1000mW
- Current-Gain-Bandwidth (ftotal): -
- Type: PNP

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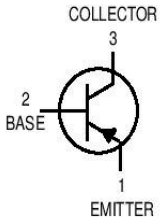
SEMICONDUCTOR TECHNICAL DATA

Order this document
by 2N4036/D

General Purpose Transistors
PNP Silicon

2N4036
2N4037



CASE 79–04, STYLE 1
TO–39 (TO–205AD)

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°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°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°C unless otherwise noted)

Characteristic		Symbol	Min	Max	Unit
OFF CHARACTERISTICS					
Collector–Emitter Sustaining Voltage(1) (I_C = −100 mAdc, I_B = 0)	 2N4036 2N4037	$V_{CEO(sus)}$	 −65 −40	 — —	Vdc
Collector–Base Breakdown Voltage (I_C = −0.1 mAdc)	 2N4037	$V_{(BR)CBO}$	−60	—	Vdc
Collector Cutoff Current (V_{CE} = −85 Vdc, V_{EB} = −1.5 Vdc) (V_{CE} = −30 Vdc, V_{EB} = −1.5 Vdc, T_C = 150°C)	 2N4036 2N4037	I_{CEX}	 — —	 −0.1 −100	mAdc
Collector Cutoff Current (V_{CB} = −90 Vdc, I_E = 0) (V_{CB} = −60 Vdc, I_E = 0)	 2N4036 2N4037	I_{CBO}	 — —	 −1.0 −0.25	µAdc
Emitter Cutoff Current (V_{EB} = −7.0 Vdc, I_C = 0) (V_{EB} = −5.0 Vdc, I_C = 0)	 2N4036 2N4037	I_{EBO}	 — —	 −10 −1.0	µAdc

1. Pulse Test: Pulse Width ≤ 300 µs, Duty Cycle ≤ 2.0%.

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