

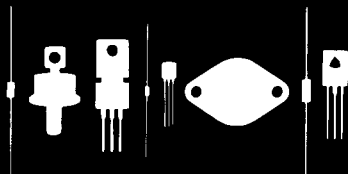
Central
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145 Adams Avenue
Hauppauge, New York 11788



2N4036

2N4037

SILICON PNP TRANSISTOR

JEDEC TO-39 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N4036, 2N4037 are Silicon PNP Epitaxial Planar Transistors designed for small signal and medium power general purpose industrial applications.

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

	SYMBOL	2N4036	2N4037	UNIT
Collector-Base Voltage	V_{CB0}	90	60	V
Emitter-Base Voltage	V_{EB0}	7.0	7.0	V
Collector-Emitter Voltage	V_{CE0}	65	40	V
Collector-Emitter Voltage	V_{CEV}, V_{CER}	85	60	V
Collector Current, Continuous	I_C	1.0	1.0	A
Base Current	I_B	0.5	0.5	A
Power Dissipation	P_D	7.0	7.0	W
Power Dissipation ($T_A=25^{\circ}\text{C}$)	P_D	1.0	1.0	W
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 TO +200		$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_C=25^{\circ}\text{C}$)

SYMBOL	TEST CONDITIONS	2N4036		2N4037		UNIT
		MIN	MAX	MIN	MAX	
I_{CB0}	$V_{CB}=60\text{V}$		0.02		0.25	μA
I_{EB0}	$V_{EB}=5\text{V}$		0.02		1.0	μA
I_{CE0}	$V_{CE}=30\text{V}$		0.5		5.0	μA
BV_{CB0}	$I_C=0.1\text{mA}$	90		60		V
BV_{EB0}	$I_E=0.1\text{mA}$	7.0		7.0		V
BV_{CE0}	$I_C=100\text{mA}$	65		40		V
BV_{CER}	$I_C=100\text{mA}, R_{BE}=200 \text{ OHMS}$	85		60		V
BV_{CEV}	$V_{BE}=1.5\text{V}, I_C=100\text{mA}$	85		60		V
$V_{CE(s)}$	$I_C=150\text{mA}, I_B=15\text{mA}$		0.65		1.4	V
$V_{BE(on)}$	$V_{CE}=10\text{V}, I_C=150\text{mA}$		1.1		1.5	V
h_{FE}	$V_{CE}=10\text{V}, I_C=0.1\text{mA}$	20		--		--
h_{FE}	$V_{CE}=10\text{V}, I_C=1.0\text{mA}$	--		15		--
h_{FE}	$V_{CE}=10\text{V}, I_C=150\text{mA}$	40	140	50	250	--
h_{FE}	$V_{CE}=10\text{V}, I_C=500\text{mA}$	20		--		--
f_T	$V_{CE}=10\text{V}, I_C=50\text{mA}, f=20 \text{ MHz}$	60		60		MHz
C_{ob}	$V_{CB}=10\text{V}, I_E=0$		30		30	pF
t_{on}	$V_{CE}=30\text{V}, I_C=150\text{mA}, I_{B1}=15\text{mA}$		110		--	nSEC
t_{off}	$V_{CE}=30\text{V}, I_C=150\text{mA}, I_{B2}=15\text{mA}$		700		--	nSEC

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