2N4036 2N4037

PNP SILICON TRANSISTOR



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DESCRIPTION:

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

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _C =25°C) Collector-Base Voltage	SYMBOL V _{CBO}	2N4036 90	2N4037 60	UNITS V
Collector-Emitter Voltage	VCEO	65	40	V
Emitter-Base Voltage	V_{EBO}	7.0	7.0	V
Continuous Collector Current	IC	1.0		Α
Continuous Base Current	I_{B}	0.	.5	Α
Power Dissipation	P_{D}	5.	.0	W
Power Dissipation (T _A =25°C)	P_{D}	1.	.0	W
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to	+200	°C
Thermal Resistance	ΘJC	3	5	°C/W

ELECTRICAL CHARACTERISTICS: (T_C=25°C unless otherwise noted)

2N4036 2N4037							
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS	
I _{CBO}	V _{CB} =90V	-	1.0	-	-	μΑ	
I _{CBO}	V _{CB} =60V	-	-	-	0.25	μΑ	
ICEX	V_{CE} =85V, V_{EB} =1.5V	-	100	-	-	μΑ	
ICEX	V_{CE} =30V, V_{EB} =1.5V, T_{C} =150°C	-	-	-	100	mA	
I _{EBO}	V _{EB} =7.0V	-	10	-	-	μΑ	
I _{EBO}	V _{EB} =5.0V	-	-	-	1.0	μΑ	
BVCEO	I _C =100mA	65	-	40	-	V	
V _{CE(SAT)}	I _C =150mA, I _B =15mA	-	0.65	-	1.4	V	
V _{BE} (SAT)	I _C =150mA, I _B =15mA	-	1.4	-	-	V	
V _{BE} (ON)	V _{CE} =10V, I _C =150mA	-	-	-	1.5	V	
hFE	V _{CE} =10V, I _C =0.1mA	20	-	-	-		
hFE	V _{CE} =10V, I _C =1.0mA	-	-	15	-		
hFE	V _{CE} =10V, I _C =150mA	40	140	50	250		
hFE	V _{CE} =2.0V, I _C =150mA	20	200	-	-		
hFE	V _{CE} =10V, I _C =500mA	20	-	-	-		
f _T	V _{CE} =10V, I _C =50mA, f=20MHz	60	-	60	-	MHz	
C _{ob}	V_{CB} =10V, I_E =0, f=1.0MHz	-	30	-	30	pF	
ton	V _{CE} =30V, I _C =150mA, I _{B1} =I _{B2} =15mA	-	110	-	-	ns	
toff	V_{CE} =30V, I_{C} =150mA, I_{B1} = I_{B2} =15mA	-	700	-	-	ns	

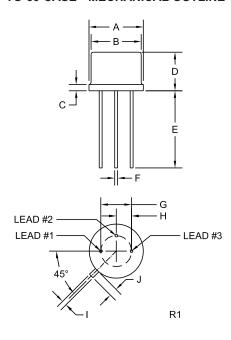
R1 (1-April 2010)

2N4036 2N4037

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TO-39 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Emitter 2) Base
- 3) Collector

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DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A (DIA)	0.335	0.370	8.51	9.40			
B (DIA)	0.315	0.335	8.00	8.51			
С	-	0.040	-	1.02			
D	0.240	0.260	6.10	6.60			
Е	0.500	-	12.70	-			
F (DIA)	0.016	0.021	0.41	0.53			
G (DIA)	0.200		5.08				
Н	0.100		2.54				
	0.028	0.034	0.71	0.86			
J	0.029	0.045	0.74	1.14			

TO-39 (REV: R1)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- · PbSn plating options
- Package details
- · Application notes
- · Application and design sample kits
- · Custom product and package development

CONTACT US

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