















ESD

TVS

S L

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	TIP36C
Overseas Part Number	TIP36C
▶ Equivalent Part Number	TIP36C





TIP36C

PNP POWER TRANSISTORS

Description:

The TIP36C is a silicon Epitaxial-Base PNP power transistor mounted in TO-3P plastic package.

Features:

- Low Leakage Current
- Low Switching Loss
- Minimum Lot-to-Lot For Reliability Operation
- Low Spread of Dynamic Parameters

Applications:

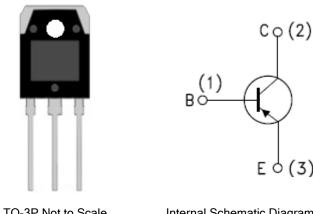
It is intented for use in power amplifier and switching applications.

The complementary NPN type is TIP35C.

Ordering Information

PART NUMBER	PACKAGE	BRAND
TIP36C	TO-3P	EVVOSEMI

BVCEO	Ptot	Ic
-140V	125W	-10A



TO-3P Not to Scale Internal Schematic Diagram

Absolute Maximum Ratings Tc= 25 °C unless otherwise specified

G 1 1	<u> </u>	Value	TT '4
Symbol	Parameter	TIP36C	Units
Vcbo	Collector-to-Base Voltage	-140	
VCEO	Collector-to-Emitter Voltage (IB=0)	-140	V
VEBO	Emitter -to-Base Breakdown Voltage (Ic=0)	-5.0	
Ic	Collector Current	-10	A
Ptot	Total Dissipation at Tamb=25°C	125	W
T_{J}	Operation Junction	150	$^{\circ}\!\mathrm{C}$
Тѕтс	Storage Temperature Range	-55~150	

Caution: Stresses greater than those listed in "Absolute Maximum Ratings" Table may cause permanent damage to the device.

Thermal Resistance

Symbol	Parameter			Test Condition	
	TIP36C				
$R_{ heta JC}$	Junction-to-Case	1.0	°C/W	Water cooled heat sink, PD adjusted for a peak junction temperature of $+150^{\circ}\mathrm{C}$.	
$R_{\theta JA}$	Junction-to-Case	50	°C/W	1 cubic foot chamber, free air.	

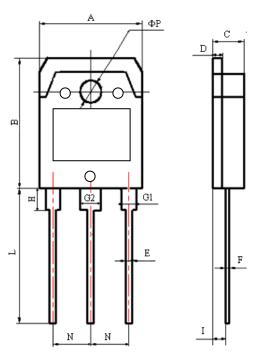


Electrical Characteristics (TJ= 25 °C unless otherwise specified):

Parameter		Rating			Test Conditions	
	Min.	Typ.	Max.	Units	Test Conditions	
ut-off Current			-5		Vcb=-140V,Ie=0A	
Cut-off Current			-5	uA	Vce=-140V,Ie=0A	
-off Current			-5		VBE=-5V,IC=0A	
oltage	-140				Ic=-0.1mA	
Voltage	-140			V	Ic=-10mA	
tage	-5				IE=-5mA	
ommon Emitter)	55		160		Vce=5V,Ic=1A *	
ommon Emitter)	35				Vce=5V,Ic=5A	
Saturation Voltage			-2.0	77	Ic=-7A,IB=-0.7A *	
ıration Voltage			-1.5	V	VCE=-5V,IC=-5A	
ency		30		MHz	Vce=-5V,Ic=-1A, f=1MHz	
	cy ycle≤2%					



TO-3P MECHANICAL DATA



DIM.	mm			
DINI.	MIN	MAX		
A	15.10	15.90		
В	19.30	20.30		
С	4.70	4.90		
D	1.40	1.60		
Е	0.90	1.10		
F	0.50	0.70		
G1	2.00	2.20		
G2	3.00	3.20		
Н	3.00	3.60		
I	1.20	1.60		
L	19.00 21.00			
N	5.25 5.65			
φР	3.10 3.30			



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