TIP41A TIP41B TIP41C

NPN SILICON POWER TRANSISTOR



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR TIP41 SERIES types are NPN Epitaxial-Base Silicon Power Transistors designed for power amplifier and high speed switching applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _C =25°C) Collector-Base Voltage		P41 TIP41A 60	TIP41B 80	TIP41C 100	UNITS V
Collector-Emitter Voltage	V _{CEO} 4	10 60	80	100	V
Emitter-Base Voltage	V_{EBO}	5	.0		V
Continuous Collector Current	IC	6	.0		Α
Peak Collector Current	I _{CM}	1	0		Α
Continuous Base Current	Ι _Β	2	.0		Α
Power Dissipation	P_{D}	6	5		W
Power Dissipation (T _A =25°C)	P_{D}	2	.0		W
Operating and Storage Junction Temperature	T _I , T _{eta}	-65 to	+150		°C

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Operating and Storage Junction Temperature		T _J , T _{stg}	T _J , T _{stg} -65 to +150		°C	
ELECTRICA SYMBOL	L CHARACTERISTICS: (T _C =25°C un	nless otherwise n	noted)	MAX	UNITS	
ICEO	V _{CE} =30V (TIP41, TIP41A)	IVIIN	ITP	0.7	mA	
ICEO	V _{CE} =60V (TIP41B, TIP41C)			0.7	mA	
ICES	V _{CE} =Rated V _{CEO}			0.4	mA	
I _{EBO}	V _{EB} =5.0V			1.0	mA	
BV CEO	I _C =30mA (TIP41)	40			V	
BVCEO	I _C =30mA (TIP41A)	60			V	
BV CEO	I _C =30mA (TIP41B)	80			V	
BV CEO	I _C =30mA (TIP41C)	100			V	
VCE(SAT)	I _C =6.0A, I _B =0.6A			1.5	V	
V _{BE(ON)}	V_{CE} =4.0V, I_{C} =6.0A			2.0	V	
h _{FE}	V_{CE} =4.0V, I_{C} =0.3A	30				
hFE	V_{CE} =4.0V, I_{C} =3.0A	15		75		
h _{fe}	V_{CE} =10V, I_{C} =0.5A, f=1.0kHz	20				
f_{T}	V_{CE} =10V, I_{C} =0.5A, f=1.0MHz	3.0			MHz	
ton	I_C =6.0A, I_{B1} = I_{B2} =0.6A, R_L =5.0 Ω		0.6		μs	
^t off	I_C =6.0A, I_{B1} = I_{B2} =0.6A, R_L =5.0 Ω		1.0		μs	

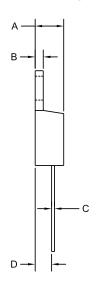
R1 (13-December 2010)

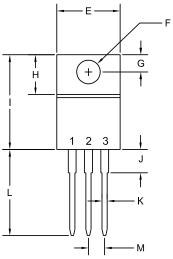
TIP41A TIP41B TIP41C

NPN SILICON POWER TRANSISTOR



TO-220 CASE - MECHANICAL OUTLINE





R2

LEAD CODE:

- 1) Base
- 2) Collector
- 3) Emitter
- Tab) Collector

MARKING:

FULL PART NUMBER

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.170	0.190	4.31	4.82			
В	0.045	0.055	1.15	1.39			
С	0.013	0.026	0.33	0.65			
D	0.083	0.107	2.10	2.72			
Е	0.394	0.417	10.01	10.60			
F (DIA)	0.140	0.157	3.55	4.00			
G	0.100	0.118	2.54	3.00			
Н	0.230	0.270	5.85	6.85			
	0.560	0.625	14.23	15.87			
J	-	0.250	-	6.35			
K	0.025	0.038	0.64	0.96			
L	0.500	0.579	12.70	14.70			
М	0.090	0.110	2.29	2.79			

TO-220 (REV: R2)

R1 (13-December 2010)

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 guick 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

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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