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SPC-F005.DWG

		REVISIONS	DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398							
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE		
1885	Α	RELEASED	BYF	02/03/06	но	2/6/06	JWM	2/6/06		

Description: The TIP41C is a silicon epitaxial—base NPN power transistor in a T0220 type plastic package intended for use in power linear and switching applications.

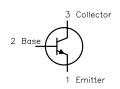
## Absolute Maximum Ratings:

## Electrical Characteristics: (T<sub>C</sub>= +25°C unless otherwise specified)

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Symbol	Test Conditions	Min	Max	Unit					
V <sub>(BR)CEO</sub>	$I_C = 30$ mA, $I_B = 0$	60	_	٧					
$I_{\text{CEO}}$	$V_{CB} = 30V$ , $I_{B} = 0$	1	0.7	mA					
$I_{EBO}$	$V_{EB} = 5V, I_{C} = 0$	1	1	mA					
ON Characteristics (Note 1)									
	$V_{CE} = 4V$ , $I_{C} = 0.3A$	30	_	-					
NFE	$V_{CE} = 4 V, I_{C} = 3A$	15	75	-					
V <sub>CE(sat)</sub>	$I_{\text{C}} = 6\text{A}, I_{\text{B}} = 0.6\text{A}$	-	1.5	٧					
V <sub>BE(on)</sub>	$I_C = 6A$ , $V_{CE} = 4V$	-	2	٧					
f <sub>T</sub>	$V_{CE} = 10 \text{ V}, I_{C} = 500 \text{mA}, f = 1 \text{MHz}$	3	-	MHz					
	V(BR)CEO ICEO IEBO  hFE  VCE(sot) VBE(on)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					

Note 1. Pulsed: Pulse Duration =  $300\mu s$ , Duty Cycle = 1.5%.

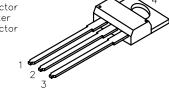




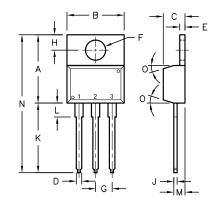
Pin Configuration:

1. Base 2. Collector 3. Emitter

4. Collector



RoHS Compliant



Dimensions	Α	В	C	D	E	F	G	Н	J	K	L	М	N	0	
Min.	14.42	9.63	3.56	_	1.15	3.75	2.29	2.54	-	12.70	2.80	2.03	-	7.	
Max.	16.51	10.67	4.83	0.90	1.40	3.88	2.79	3.43	0.56	14.73	4.07	2.92	31.24	_	

DISCLAIMER:
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED
HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE
BELIEVE TO BE ACCURATE AND RELIABLE. SINCE
CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE
USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT
FOR THE INTENDED USE AND ASSUME ALL RISK AND
LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

TOLERANCES: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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APPROVED BY:	DATE:
JEEF MCVICKER	2/6/06

DRAWING TITLE:											
Power Transistor, Silicon, TO—220, NPN											
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