2N6486 2N6487 2N6488 NPN 2N6489 2N6490 2N6491 PNP

COMPLEMENTARY SILICON POWER TRANSISTORS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N6486, 2N6489 series types are complementary silicon power transistors designed for general purpose switching and amplifier applications.

MARKING: FULL PART NUMBER



$\textbf{MAXIMUM RATINGS:} \ (T_{\hbox{\scriptsize C}}\text{=}25^{\circ}\text{C unless otherwise}$,	2N6486	2N6487	2N6488	LINUTO
Collector-Base Voltage	SYMBOL VCBO	2N6489 50	2N6490 70	2N6491 90	UNITS V
Collector-Emitter Voltage	V_{CEO}	40	60	80	V
Emitter-Base Voltage	V_{EBO}		5.0		V
Continuous Collector Current	IC		15		Α
Continuous Base Current	I_{B}		5.0		Α
Power Dissipation	P_{D}		75		W
Power Dissipation (T _A =25°C)	P_{D}		1.8		W
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 to +150		°C
Thermal Resistance	ΘJC		1.67		°C/W

ELECTRICAL	L CHARACTERISTICS: (T _C =25°C)	2N6486 2N6487 2N6489 2N6490			2N6488 2N6491			
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	UNITS
I _{CEV}	V _{CE} =45V, V _{EB} =1.5V	-	500	-	-	-	-	μΑ
ICEV	V _{CE} =65V, V _{EB} =1.5V	-	-	-	500	-	-	μΑ
ICEV	V_{CE} =85V, V_{EB} =1.5V	-	-	-	-	-	500	μΑ
I _{CEO}	V _{CE} =½ Rated V _{CEO}	-	1.0	-	1.0	-	1.0	mA
I _{EBO}	V _{EB} =5.0V	-	1.0	-	1.0	-	1.0	mA
BVCEV	V_{BE} =1.5V, I_{C} =200mA	50	-	70	-	90	-	V
BV CEO	I _C =200mA	40	-	60	-	80	-	V
VCE(SAT)	I _C =5.0A, I _B =0.5A	-	1.3	-	1.3	-	1.3	V
VCE(SAT)	I _C =15A, I _B =5.0A	-	3.5	-	3.5	-	3.5	V
V _{BE(ON)}	V_{CE} =4.0V, I_{C} =5.0A	-	1.3	-	1.3	-	1.3	V
V _{BE(ON)}	V _{CE} =4.0V, I _C =15A	-	3.5	-	3.5	-	3.5	V
hFE	V_{CE} =4.0V, I_{C} =5.0A	20	150	20	150	20	150	
h _{FE}	V _{CE} =4.0V, I _C =15A	5.0	-	5.0	-	5.0	-	
h _{fe}	V_{CE} =4.0V, I_{C} =1.0A, f=1.0kHz	25	-	25	-	25	-	
f_{T}	V_{CE} =4.0V, I_{C} =1.0A, f=1.0MHz	5.0	-	5.0	-	5.0	-	MHz

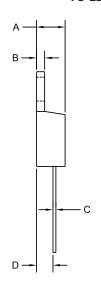
R1 (11-September 2012)

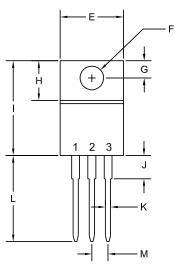
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COMPLEMENTARY SILICON POWER TRANSISTORS



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)



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

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- · Package details
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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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