

COMPLEMENTARY SILICON POWER TRANSISTORS

TO-220 CASE

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DESCRIPTION:

The CENTRAL SEMICONDUCTOR MJE15028/MJE15029 Series types are Complementary Silicon Power Transistors designed for use in audio amplifier applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _A =25°C unless otherwise noted)			MJE15028	MJE15030	
		SYMBOL	MJE15029	<u>MJE15031</u>	UNITS
Collector-Bas		V _{CBO}	120 150		V
Collector-Emi	5	VCEO	120	150	V
Emitter-Base	Ū	VEBO	5.0		V
	ollector Current	IС	8	.0	A
Peak Collecto	or Current	ICM	16		А
Base Current		۱ _B	2.0		А
Power Dissipa	ation	PD	2	.0	W
Power Dissipa	ation (T _C =25°C)	PD	5	0	W
Operating and	d Storage Junction Temperature	Т _Ј , Т _{stg}	-65 to	+150	°C
Thermal Resi	stance	Θ_{JA}	62	2.5	°C/W
Thermal Resistance		Θ^{JC}	2.5		°C/W
ELECTRICAL CHARACTERISTICS: (T _C =25°C)					
SYMBOL	TEST CONDITIONS	MIN	M	AX	UNITS
I _{СВО}	V _{CB} =Rated V _{CBO}		1	0	μA
ICEO	V _{CE} =Rated V _{CEO}		1(00	μA
I _{EBO}	V _{EB} =5.0V		1	0	μA
BVCEO	I _C =10mA (MJE15028, MJE15029)	120			V
BVCEO	I _C =10mA (MJE15030, MJE15031)	150			V
V _{CE(SAT)}	I _C =1.0A, I _B =100mA		0	.5	V
V _{BE(ON)}	V _{CE} =2.0V, I _C =1.0A		1	.0	V
h _{FE}	V _{CE} =2.0V, I _C =100mA	40			
h _{FE}	V _{CE} =2.0V, I _C =2.0A	40			
h _{FE}	V _{CE} =2.0V, I _C =3.0A	40			
h _{FE}	V _{CE} =2.0V, I _C =4.0A	20			
fT	V _{CE} =10V, I _C =500mA, f=10MHz	30			MHz

R0 (17-February 2009)



COMPLEMENTARY SILICON POWER TRANSISTORS

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TO-220 CASE - MECHANICAL OUTLINE

DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
А	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)								

LEAD CODE:

1) BASE 2) COLLECTOR 3) EMITTER TAB) COLLECTOR

MARKING: FULL PART NUMBER

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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

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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- Application and design sample kits

· Custom bar coding for shipments

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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