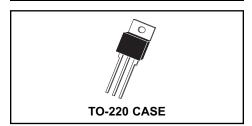
MJE15028 MJE15030 NPN MJE15029 MJE15031 PNP

COMPLEMENTARY SILICON POWER TRANSISTORS





DESCRIPTION:

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

MARKING: FULL PART NUMBER

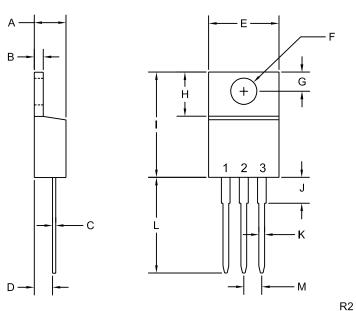
MAXIMUM RATINGS: (T _A =25°C unless otherwise noted)			MJE15028	MJE15030	
		SYMBOL	MJE15029	MJE15031	UNITS
Collector-Base Voltage		V _{CBO}	120	150	V
Collector-Emitter Voltage		V _{CEO}	120	150	V
Emitter-Base	Voltage	VEBO	5.0		V
Continuous Collector Current		IC	8.0		Α
Peak Collector Current		I _{CM}	16		Α
Base Current		I_{B}	2.0		Α
Power Dissipation		P_{D}	2.0		W
Power Dissipation (T _C =25°C)		P_{D}	50		W
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +150		°C
Thermal Resistance		$\Theta_{\sf JA}$	62.5		°C/W
Thermal Resistance		$_{\Theta}$ JC	2.5		°C/W
ELECTRICAL CHARACTERISTICS: (T _C =25°C)					
SYMBOL	TEST CONDITIONS	MIN	M	ΑX	UNITS
I _{CBO}	V _{CB} =Rated V _{CBO}		1	0	μΑ
ICEO	V _{CE} =Rated V _{CEO}		10	00	μΑ
I _{EBO}	V _{EB} =5.0V		1	0	μΑ
BV _{CEO}	I _C =10mA (MJE15028, MJE15029)	120			V
BV_{CEO}	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			
f _T	V _{CE} =10V, I _C =500mA, f=10MHz	30			MHz



MJE15028 MJE15030 NPN MJE15029 MJE15031 PNP

COMPLEMENTARY SILICON POWER TRANSISTORS

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

R0 (17-February 2009)

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).

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