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Complementary Silicon Plastic Power Transistors

MJE15028, MJE15030 (NPN), MJE15029, MJE15031 (PNP)

These devices are designed for use as high frequency drivers in audio amplifiers.

Features

- High Current Gain Bandwidth Product
- TO 220 Compact Package
- These Devices are Pb Free and are RoHS Compliant*

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Collector–Emitter Voltage MJE15028G, MJE15029G MJE15030G, MJE15031G	V _{CEO}	120 150	Vdc
Collector–Base Voltage MJE15028G, MJE15029G MJE15030G, MJE15031G	V _{CB}	120 150	Vdc
Emitter-Base Voltage	V _{EB}	5.0	Vdc
Collector Current – Continuous	۱ _C	8.0	Adc
Collector Current – Peak	I _{CM}	16	Adc
Base Current	I _B	2.0	Adc
Total Device Dissipation @ T _C = 25°C Derate above 25°C	P _D	50 0.40	W ₩/°C



MARKING DIAGRAM

Total Device Dissipation @ $T_A = 25^{\circ}C$ Derate above $25^{\circ}C$

R_{θJC} 2.5



MJE15028, MJE15030 (NPN), MJE15029, MJE15031 (PNP)



Figure 2. Thermal Response

MJE15028, MJE15030 (NPN), MJE15029, MJE15031 (PNP)



Figure 6. Small–Signal Current Gain



Figure 7. Current Gain-, SMALL SIGN32000RfBT8 00 AM90.06

MJE15028, MJE15030 (NPN), MJE15029, MJE15031 (PNP)

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TO-220-3 10.10x15.12x4.45, 2.54P CASE 221A ISSUE AL

DATE 05 FEB 2025





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А

	MILLIM	ETERS	
DIM	MIN	NOM	MAX
A	4.07	4.45	4.83
A1	1.15	1.28	1.41
A2	2.04	2.42	2.79
b	1.15	1.34	1.52
b1	0.64	0.80	0.96
с	0.36	0.49	0.61
D	9.66	10.10	10.53
D1	8.43	8.63	8.83
E	14.48	15.12	15.75
E1	12.58	12.78	12.98
E2		1.27 REF	-

	MILLIM	ETERS	
DIM	MIN	NOM	MAX
е	2.42	2.5	
			C
Q	2.54	2.79	3.04
øР	3.60	3.85	4.09
Z			3.48

1. DIMENSIONING AND TOLERANCING PER ASME Y14.



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