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MJE15034 (NPN), MJE15035 (PNP)

Complementary Silicon Plastic Power Transistors

TO-220, NPN & PNP Devices

Complementary silicon plastic power transistors are designed for use as high-frequency drivers in audio amplifiers.

Features

- High Current Gain Bandwidth Product
- TO-220 Compact Package
- Epoxy meets UL 94 V-0 @ 0.125 in
- These Devices are Pb-Free and are RoHS Compliant*

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	V _{CEO}	350	Vdc
Collector-Base Voltage	V _{CB}	350	Vdc
Emitter-Base Voltage	V _{EB}	5.0	Vdc
Collector Current – Continuous	Ι _C	4.0	Adc
Collector Current – Peak	I _{CM}	8.0	Adc
Base Current	I _B	1.0	Adc
Total Power Dissipation @ $T_C = 25^{\circ}C$ Derate above 25°C	P _D	50 0.40	W W/°C
Total Power Dissipation @ T _A = 25°C Derate above 25°C	P _D	2.0 0.016	W W/°C
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to +150	°C
ESD – Human Body Model	HBM	3B	V
ESD – Machine Model	MM	С	V

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance, Junction-to-Case	R_{\thetaJC}	2.5	°C/W
Thermal Resistance, Junction-to-Ambient	$R_{\theta JA}$	62.5	°C/W

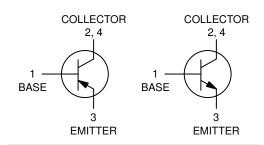


ON Semiconductor®

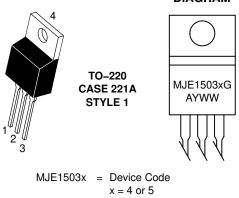
www.onsemi.com

4.0 AMPERES POWER TRANSISTORS COMPLEMENTARY SILICON 350 VOLTS, 50 WATTS

COMPLEMENTARY







Α	= Location Code
Y	= Year
WW	= Work Week
G	= Pb–Free Package

ORDERING INFORMATION

Device	Package	Shipping
MJE15034G	TO–220 (Pb–Free)	50 Units / Rail
MJE15035G	TO–220 (Pb–Free)	50 Units / Rail

*For additional information on our Pb–Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

MJE15034 (NPN), MJE15035 (PNP)

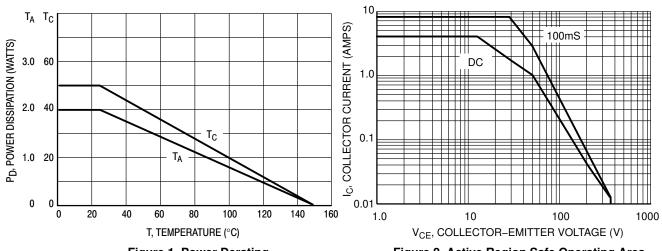
ELECTRICAL CHARACTERISTICS ($T_C = 25^{\circ}C$ unless otherwise noted)

	•	•	·
N			
V _{CEO(sus)}	350	-	Vdc
I _{CBO}	-	10	μAdc
I _{EBO}	-	10	μAdc
÷	•		·
	100 100 50 10		-
V _{CE(sat)}	-	0.5	Vdc
V _{BE(on)}	-	1.0	Vdc
) I _{EBO} h _{FE}) V _{CE(sat)}	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

1. Pulse Test: Pulse Width \leq 300 µs, Duty Cycle \leq 2.0%.

2. $f_T = |h_{fe}| \bullet f_{test}$.







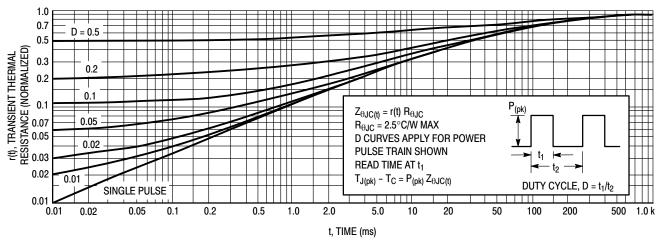
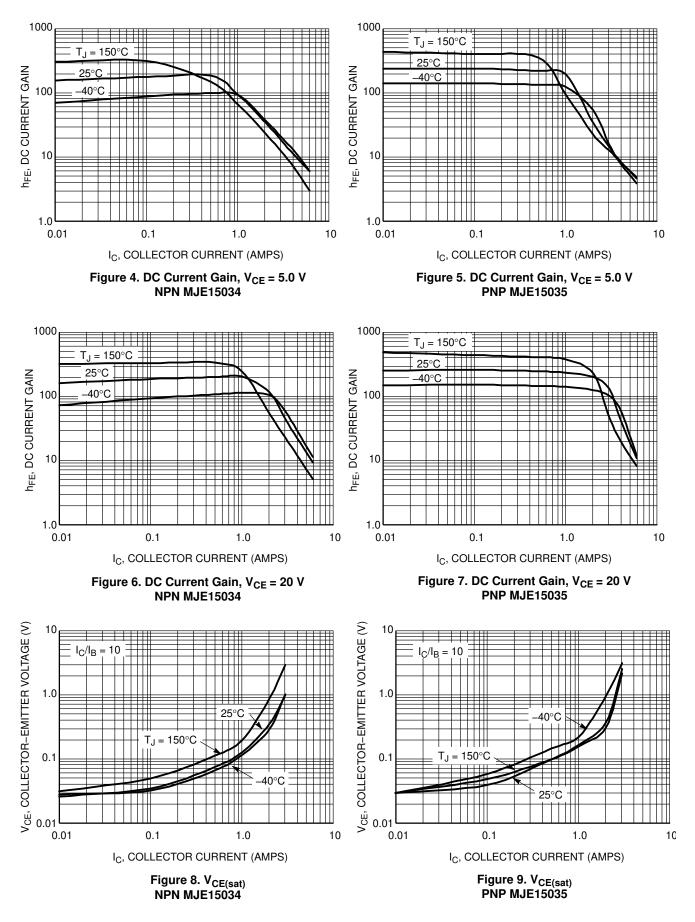
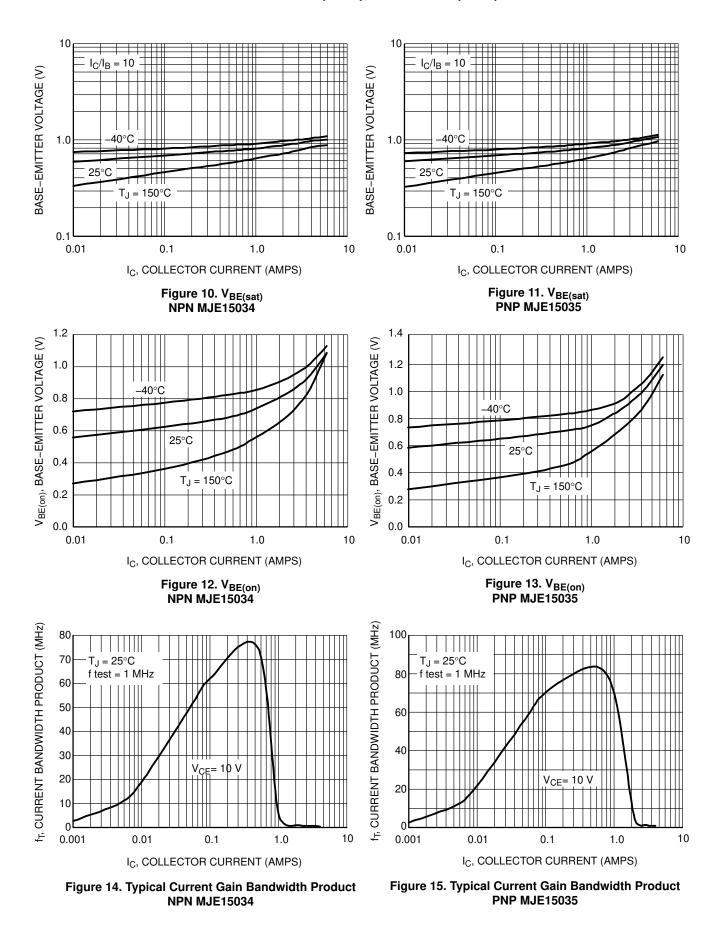


Figure 3. Thermal Response

MJE15034 (NPN), MJE15035 (PNP)

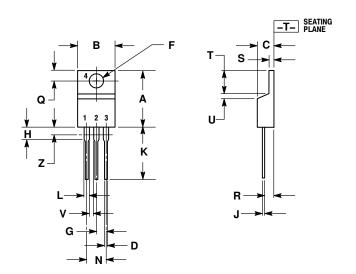


MJE15034 (NPN), MJE15035 (PNP)



PACKAGE DIMENSIONS

TO-220 CASE 221A-09 ISSUE AH



NOTES:

 L. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
CONTROLLING DIMENSION: INCH.

 CONTROLLING DIMENSION: INCH.
DIMENSION 2 DEFINES A ZONE WHERE ALL BODY AND LEAD IRREGULARITIES ARE ALLOWED.

	INCHES		MILLIMETERS	
DIM	MIN	MAX	MIN	MAX
Α	0.570	0.620	14.48	15.75
В	0.380	0.415	9.66	10.53
c	0.160	0.190	4.07	4.83
D	0.025	0.038	0.64	0.96
F	0.142	0.161	3.61	4.09
G	0.095	0.105	2.42	2.66
Η	0.110	0.161	2.80	4.10
J	0.014	0.024	0.36	0.61
K	0.500	0.562	12.70	14.27
Г	0.045	0.060	1.15	1.52
N	0.190	0.210	4.83	5.33
Q	0.100	0.120	2.54	3.04
R	0.080	0.110	2.04	2.79
S	0.045	0.055	1.15	1.39
Т	0.235	0.255	5.97	6.47
U	0.000	0.050	0.00	1.27
۷	0.045		1.15	
Ζ		0.080		2.04

STYLE 1: PIN 1 BASE

2. COLLECTOR

EMITTER
COLLECT

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