

NB311, 312, 313(NPN), NB321, 322, 323(PNP)

6501130 NATL SEMICONDUCTOR, (DISCRETE)



28C 35601 D

T-29-21

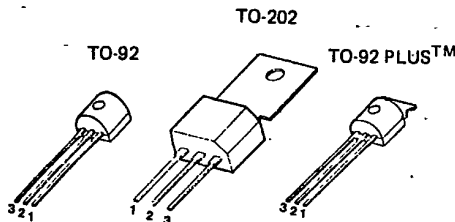
T-33-07

**NB311, 312, 313 (NPN)
NB321, 322, 323 (PNP) 1.5Amp complementary power drivers**

features

- 35 to 65 Volt at 1.5 Amp collector ratings
- Low $V_{CE(sat)}$ and $V_{BE(sat)}$ characteristics with $I_C = 300\text{ mA}$ and $I_B = 10\text{ mA}$ drive
- Available in TO-92, TO-92 PLUSTM and TO-202 packages
- "Epoxy B" packaging concept for excellent reliability

1 packages and lead coding



PACKAGE CODE			LEAD		
TO-92	TO-92 PLUS	TO-202	1	2	3
E	X	K	E	B	C
F	Y	L	E	C	B
H	Z	M	B	C	E

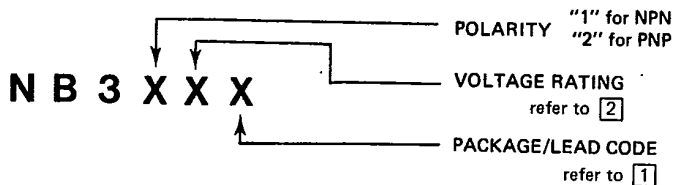
applications

- Driver stages in high-power audio amplifiers
- Medium-power switching circuits
- Converter/inverter circuits
- TV receivers

2 maximum ratings

PARAMETER	SYMBOL	NB311 NB321	NB312 NB322	NB313 NB323	UNIT
Collector-Emitter Voltage	V_{CEO}	35	50	65	V_{DC}
Collector-Base Voltage	V_{CB}	40	55	70	V_{DC}
Emitter-Base Voltage	V_{EB}	6	6	6	V_{DC}
Collector Current (continuous)	I_C	1.5	1.5	1.5	A_{DC}
Power Dissipation ($T_A = 25^\circ\text{C}$)	P_D	TO-92	0.6	0.6	W
		TO-92 PLUS	0.75	0.75	W
		TO-202	1.75	1.75	W
Power Dissipation ($T_C = 25^\circ\text{C}$)	P_D	TO-92	1.0	1.0	W
		TO-92 PLUS	2.5	2.5	W
		TO-202	10	10	W
Temperature, Junction and Storage	T_j, T_{stg}	-55 to +150	-55 to +150	-55 to +150	$^\circ\text{C}$

3 ordering information



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⑥ typical performance characteristics

T-29-21
T-33-07

