ELECTRONICS, INC.
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NTE293 (NPN) & NTE294 (PNP)
Silicon Complementary Transistors
Audio Amplifier and Driver

Description:

The NTE293 (NPN) and NTE294 (PNP) are silicon complementary transistors in a Giant TO92 type package designed for use in low–frequency power amplification and drive applications.

Features:

- Low Collector–Emitter Saturation Voltage

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

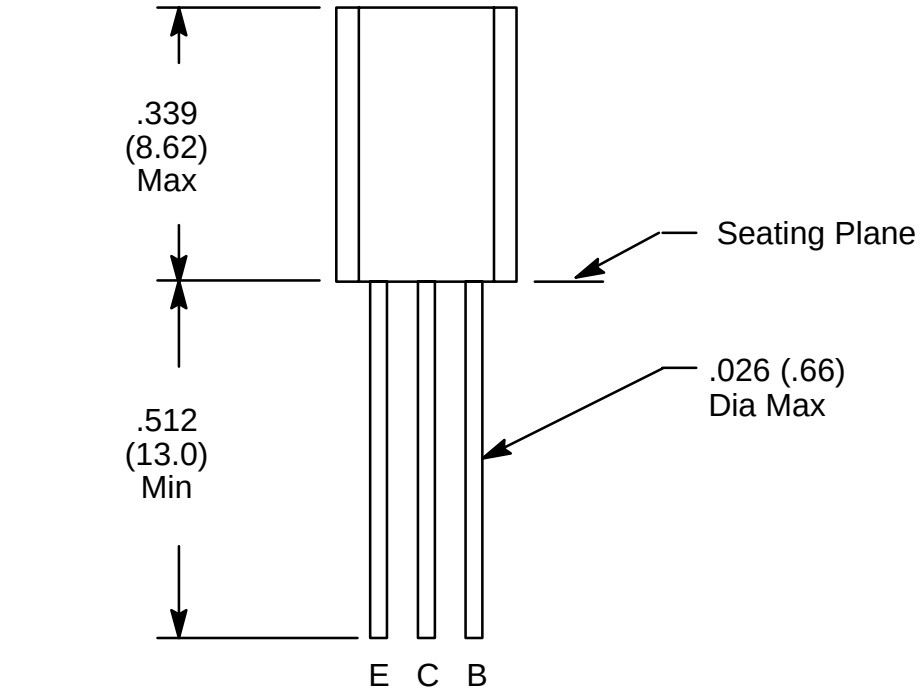
Collector–Base Voltage, V_{CBO} 60V
Collector–Emitter Voltage, V_{CEO} 50V
Emitter–Base Voltage, V_{EBO} 5V
Collector Current, I_C
  Continuous 1A
  Peak 1.5A
Collector Power Dissipation, P_C 1W
Operating Junction Temperature, T_J . . . . . +150°C
Storage Temperature Range, T_{stg} . . . . . –55° to +150°C

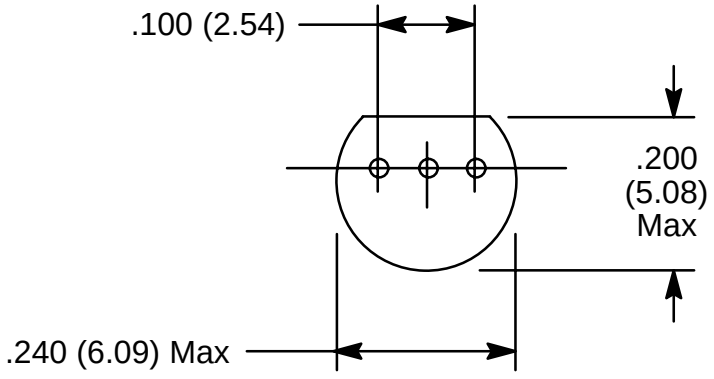
Electrical Characteristics: (T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector–Base Breakdown Voltage	$V_{(BR)CBO}$	I_C = 10μA, I_E = 0	60	–	–	V
Collector–Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C = 2mA, I_B = 0	50	–	–	V
Emitter–Base Breakdown Voltage	$V_{(BR)EBO}$	I_E = 10μA, I_C = 0	5	–	–	V
Collector Cutoff Current	I_{CBO}	V_{CB} = 20V, I_E = 0	–	–	0.1	μA
DC Current Gain	h_{FE}	V_{CE} = 10V, I_C = 500mA, Note 2	120	–	240	
		V_{CE} = 5V, I_B = 1A, Note 2	50	100	–	
Collector–Emitter Saturation Voltage	$V_{CE(sat)}$	I_C = 500mA, I_B = 50mA, Note 2	–	0.2	0.4	V
Base–Emitter Saturation Voltage	$V_{BE(sat)}$	I_C = 500mA, I_B = 50mA, Note 2	–	0.85	1.2	V
Current–Gain Bandwidth Product	f_T	V_{CB} = 10V, I_E = 50mA, f = 200MHz	–	200	–	MHz
Collector Output Capacitance	C_{ob}	V_{CB} = 10V, I_e = 0, f = 1MHz	–	11	20	pF

Note 1. NTE293MP is a matched pair of NTE293 with their DC Current Gain (h_{FE}) matched to within 10% of each other.

Note 2. Pulse measurement.


.339
(8.62)
Max
Seating Plane
.026 (.66)
Dia Max
.512
(13.0)
Min
E C B


.100 (2.54)
.200
(5.08)
Max
.240 (6.09) Max

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