



ELECTRONICS, INC.
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 BLOOMFIELD, NJ 07003
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NTE2302

Silicon NPN Transistor

Color TV Horizontal Deflection Output ^w/Damper Diode

Features:

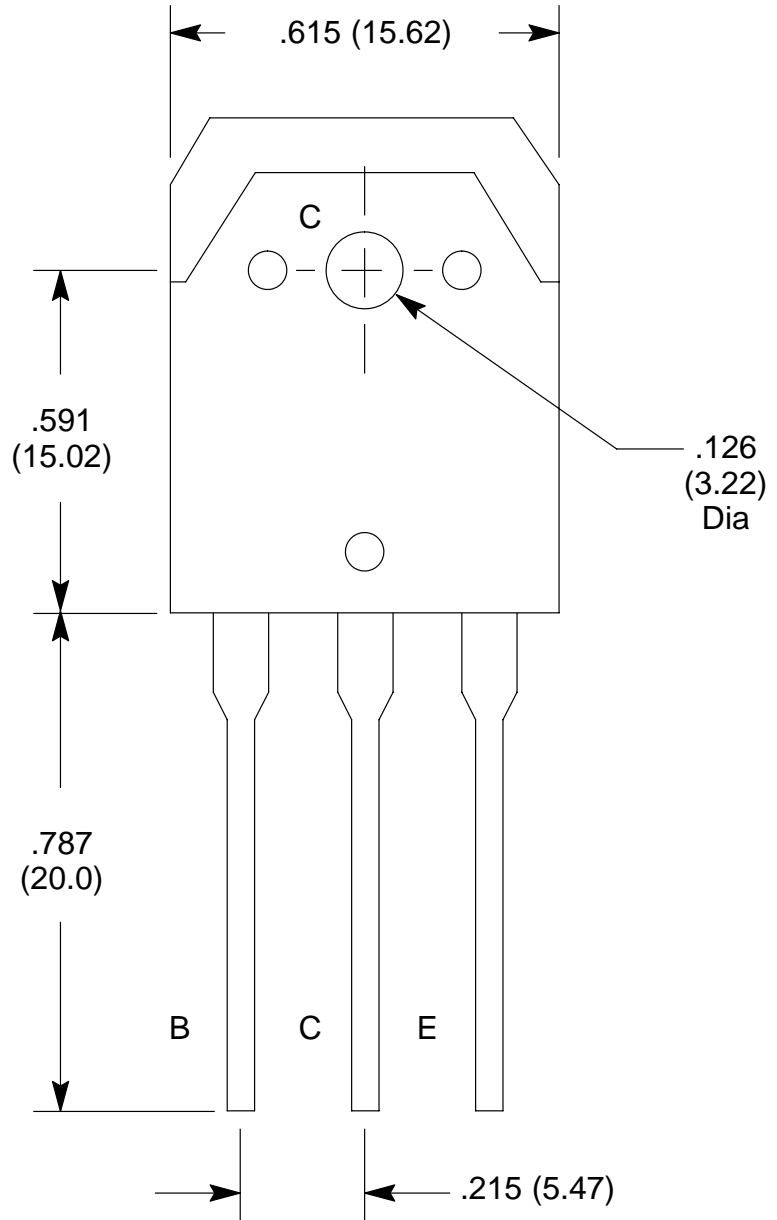
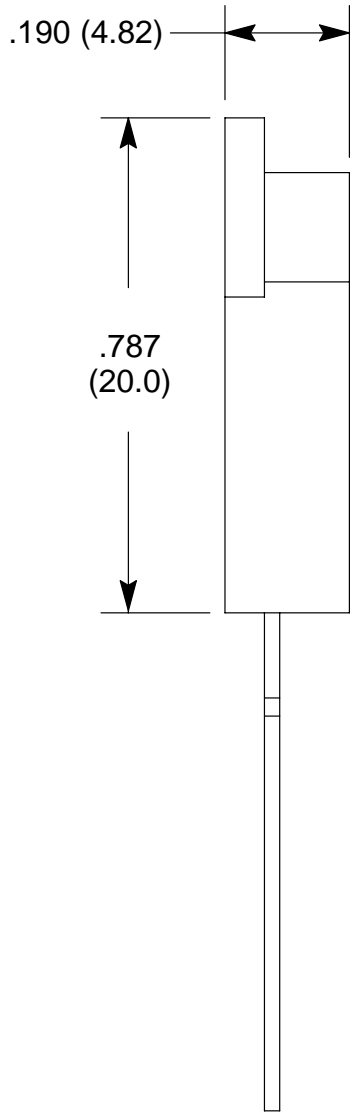
- High Breakdown Voltage and High Reliability
- High Switching Speed
- Capable of Being Mounted in a Variety of Methods

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Collector–Base Voltage, V_{CBO}	1500V
Collector–Emitter Voltage, V_{CEO}	800V
Emitter–Base Voltage, V_{EBO}	7V
Collector Current, I_C	
Continuous	5A
Peak	16A
Collector Dissipation ($T_C = +25^\circ\text{C}$), P_C	120W
Operating Junction Temperature, T_J	+150°C
Storage Temperature Range, T_{stg}	–55° to +150°C

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = 800V, I_E = 0$	–	–	10	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 4V, I_C = 0$	40	–	130	mA
DC Current Gain	h_{FE}	$V_{CE} = 5V, I_C = 1A$	8	–	–	
Current Gain–Bandwidth Product	f_T	$V_{CE} = 10V, I_C = 1A$	–	3	–	MHz
Collector–Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 4A, I_B = 0.8A$	–	–	5.0	V
Base–Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 4A, I_B = 0.8A$	–	–	1.5	V
Collector–Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 5mA, I_E = 0$	1500	–	–	V
Collector–Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 100mA, R_{BE} = \infty$	800	–	–	V
Emitter–Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 200mA, I_C = 0$	7	–	–	V
Diode Forward Voltage	V_F	$I_{EC} = 5A$	–	–	2	V
Fall Time	t_f	$V_{CC} = 200V, I_C = 4A, I_{B1} = 0.8A, I_{B2} = -1.6A, R_L = 50\Omega$	–	–	0.7	μs



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