



ELECTRONICS, INC.  
44 FARRAND STREET  
BLOOMFIELD, NJ 07003  
(973) 748-5089

## NTE2348 Silicon NPN Transistor High Voltage, High Speed Switch

### Features:

- High Breakdown Voltage, High Reliability
- Fast Switching Speed
- Wide Safe Operating Area

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

Collector–Base Voltage, $V_{CBO}$ .....	1100V
Collector–Emitter Voltage, $V_{CEO}$ .....	800V
Emitter–Base Voltage, $V_{EBO}$ .....	7V
Collector Current, $I_C$	
Continuous .....	12A
Peak (Note 1) .....	30A
Base Current, $I_B$ .....	6A
Collector Dissipation ( $T_C = +25^\circ\text{C}$ ), $P_c$ .....	150W
Operating Junction Temperature, $T_J$ .....	+150°C
Storage Temperature Range, $T_{stg}$ .....	–55° to +150°C

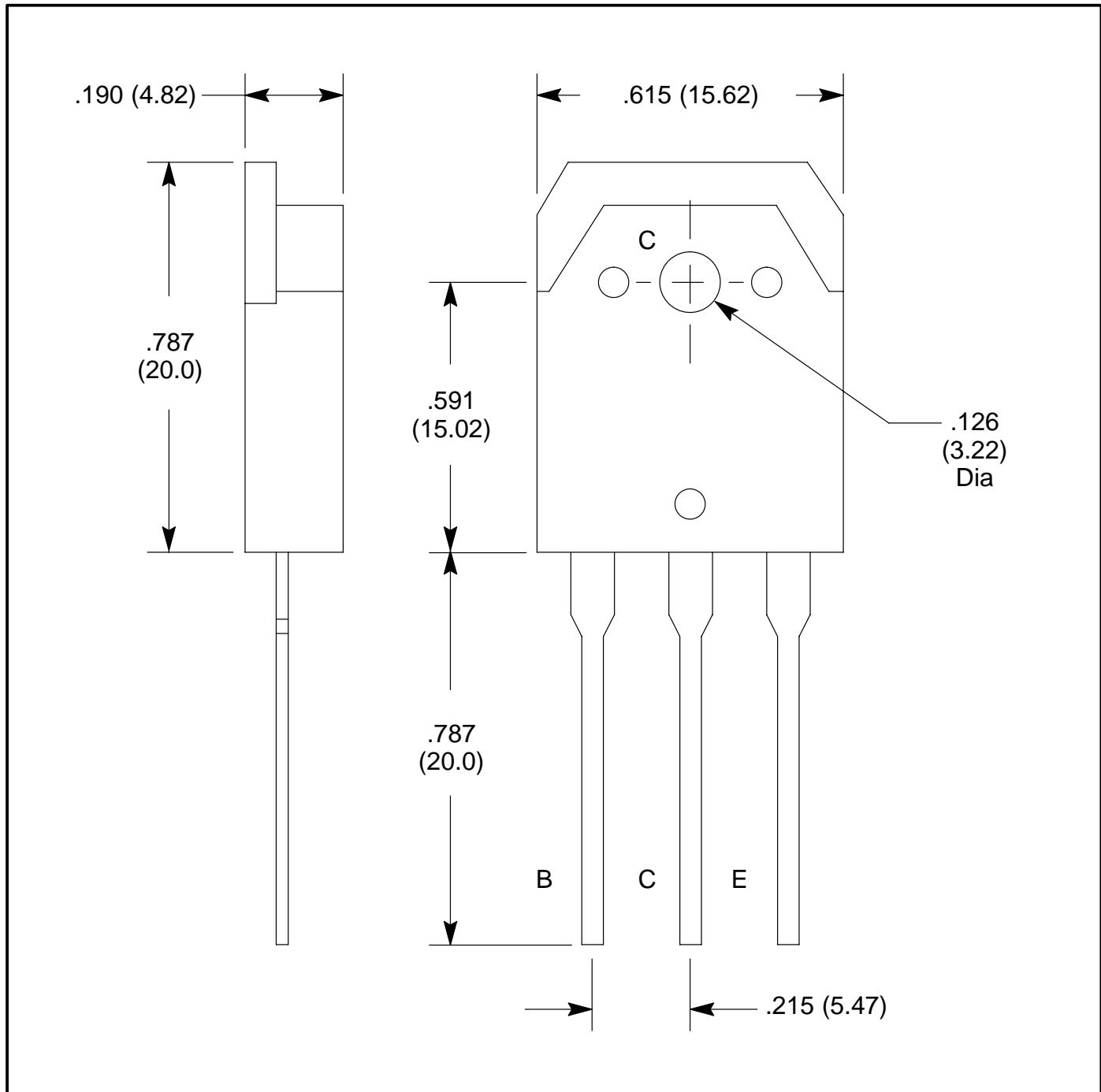
Note 1. Pulse Width  $\leq 300\mu\text{s}$ , Duty Cycle  $\leq 10\%$ .

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = 800\text{V}$ , $I_E = 0$	–	–	10	$\mu\text{A}$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = 5\text{V}$ , $I_C = 0$	–	–	10	$\mu\text{A}$
DC Current Gain	$h_{FE}$ (1)	$V_{CE} = 5\text{V}$ , $I_C = 800\text{mA}$	10	–	–	
	$h_{FE}$ (2)	$V_{CE} = 5\text{V}$ , $I_C = 4\text{A}$	8	–	–	
Gain Bandwidth Product	$f_T$	$V_{CE} = 10\text{V}$ , $I_C = 800\text{mA}$	–	15	–	MHz
Output Capacitance	$C_{ob}$	$V_{CB} = 10\text{V}$ , $f = 1\text{MHz}$	–	215	–	pF
Collector–Emitter Saturation Voltage	$V_{CE(\text{sat})}$	$I_C = 6\text{A}$ , $I_B = 1.2\text{mA}$	–	–	2.0	V
Base–Emitter Saturation Voltage	$V_{BE(\text{sat})}$	$I_C = 6\text{A}$ , $I_B = 1.2\text{mA}$	–	–	1.5	V

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector–Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 1\text{mA}, I_E = 0$	1100	—	—	V
Collector–Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 5\text{mA}, R_{BE} = \infty$	800	—	—	V
Emitter–Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 1\text{mA}, I_C = 0$	7	—	—	V
Collector–Emitter Sustaining Voltage	$V_{CEX(\text{sus})}$	$I_C = 6\text{A}, I_{B1} = I_{B2} = 1.2\text{mA}, L = 2\text{mH, Clamped}$	800	—	—	V
Turn–On Time	$t_{on}$	$V_{CC} = 400\text{V}, I_{B1} = -2.5\text{A}, I_{B2} = I_C = 8\text{A}, R_L = 50\Omega$	—	—	0.5	$\mu\text{s}$
Storage Time	$t_{stg}$		—	—	3.0	$\mu\text{s}$
Fall Time	$t_f$		—	—	0.3	$\mu\text{s}$



# X-ON Electronics

Largest Supplier of Electrical and Electronic Components

***Click to view similar products for Bipolar Transistors - BJT category:***

***Click to view products by NTE manufacturer:***

Other Similar products are found below :

[619691C](#) [MCH4017-TL-H](#) [MJ15024/WS](#) [MJ15025/WS](#) [BC546/116](#) [BC556/FSC](#) [BC557/116](#) [BSW67A](#) [HN7G01FU-A\(T5L,F,T](#)  
[NJVMJD148T4G](#) [NSVMMBT6520LT1G](#) [NTE187A](#) [NTE195A](#) [NTE2302](#) [NTE2330](#) [NTE2353](#) [NTE316](#) [IMX9T110](#) [NTE63](#) [NTE65](#)  
[C4460](#) [SBC846BLT3G](#) [2SA1419T-TD-H](#) [2SA1721-O\(TE85L,F\)](#) [2SA1727TLP](#) [2SA2126-E](#) [2SB1202T-TL-E](#) [2SB1204S-TL-E](#) [2SC5488A-TL-H](#)  
[2SD2150T100R](#) [SP000011176](#) [FMC5AT148](#) [2N2369ADCSM](#) [2SB1202S-TL-E](#) [2SC2412KT146S](#) [2SC4618TLN](#) [2SC5490A-TL-H](#)  
[2SD1816S-TL-E](#) [2SD1816T-TL-E](#) [CMXT2207 TR](#) [CPH6501-TL-E](#) [MCH4021-TL-E](#) [BC557B](#) [TTC012\(Q\)](#) [BULD128DT4](#) [JANTX2N3810](#)  
[Jantx2N5416](#) [US6T6TR](#) [KSF350](#) [068071B](#)