

NTE2301 Silicon NPN Transistor High Voltage Horizontal Output

Description:

The NTE2301 is a silicon NPN power transistor in a TO218 type package designed for use in large screen deflection circuits.

Features:

- Collector–Emitter Voltage: V_{CEX} = 1500V
- Glassivated Base–Collector Junction
- Safe Operating Area @ 50μs = 20A, 400V
- Switching Times with Inductive Loads: $t_f = 0.4 \mu s$ (Typ) @ $I_C = 4.5 A$

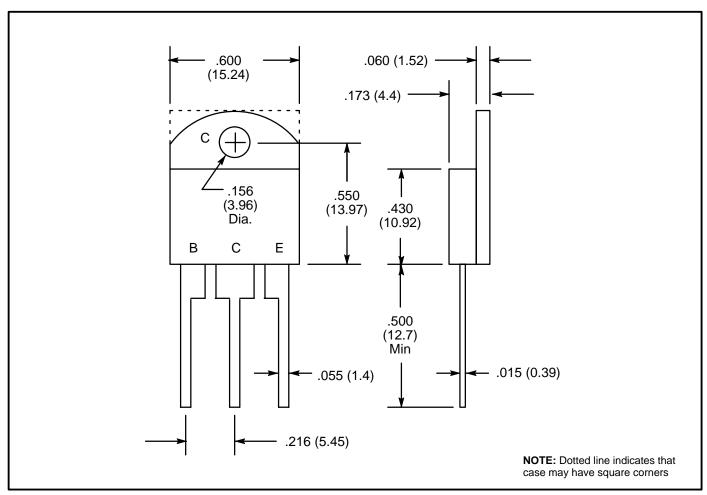
Absolute Maximum Ratings:

750V
5V
5A
4A
9A
100W
40W
0.8W/°C
–65° to +150°C
65° to +150°C
1.25°C/W
+275°C

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

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
OFF Characteristics (Note 1)							
Collector–Emitter Sustaining Voltage	V _{CEO(sus)}	$I_C = 50 \text{mA}, I_B = 0$	750	_	_	V	
Collector Cutoff Current	I _{CES}	V _{CE} = 1500V, V _{BE} = 0	_	_	1	mΑ	
Emitter Cutoff Current	I _{EBO}	$V_{BE} = 5V, I_{C} = 0$	_	_	1	mΑ	
ON Characteristics (Note 1)							
Collector–Emitter Saturation Voltage	V _{CE(sat)}	I _C = 4.5A, I _B = 1.8A	_	_	5	V	
		I _C = 3.5A, I _B = 1.5A	_	_	5	V	
Base–Emitter Saturation Voltage	V _{BE(sat)}	I _C = 4.5A, I _B = 1.8A	_	_	1.5	V	
		I _C = 3.5A, I _B = 1.5A	_	_	1.5	V	
Dynamic Characteristics							
Current Gain – Bandwidth Product	f _T	$I_C = 100$ mA, $V_{CE} = 5$ V, $f_{test} = 1$ MHz	_	4	_	MHz	
Output Capacitance	C _{ob}	$V_{CB} = 10V, I_E = 0, f = 0.1MHz$	_	125	_	pF	
Switching Characteristics							
Fall Time	t _f	$I_C = 4.5A$, $I_{B1} = 1.8A$, $L_B = 8\mu H$	_	0.4	1.0	μs	
		$I_C = 4.5A$, $I_{B1} = 1.8A$, $L_B = 8\mu H$, $T_C = +100^{\circ}C$	_	0.6	_	μs	

Note 1. Pulse Test: Pulse Width $\leq 300 \mu s$, Duty Cycle = 2%.



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 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