



ELECTRONICS, INC.

44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748-5089
<http://www.nteinc.com>

NTE318 Silicon NPN Transistor RF Power Output

Description:

The NTE318 is a 12.5V epitaxial silicon NPN planar transistor designed primarily for HF communications. This device utilizes improved metallization systems to achieve extreme ruggedness under severe operating conditions.

Features:

- Designed for HF military and commercial equipment 40W minimum with greater than 10.0dB gain
- Withstands severe mismatch under operating conditions
- Low inductance Stripline Package

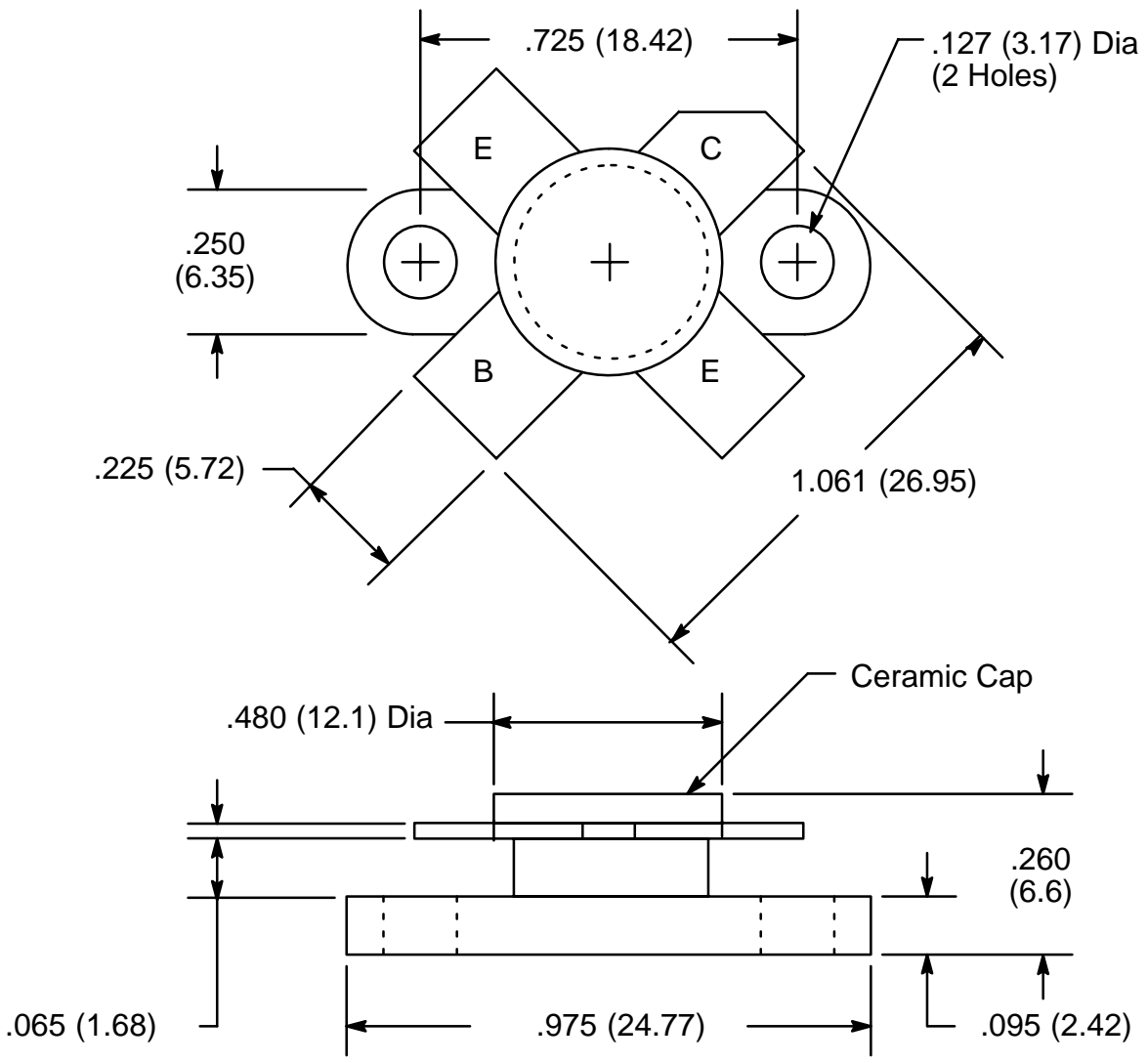
Absolute Maximum Ratings:

Collector Base Voltage, V_{CBO}	36V
Collector–Emitter Voltage, V_{CEO}	18V
Emitter–Base Voltage, V_{EBO}	4V
Maximum Collector Current, I_C	6A
Total Device Dissipation (+25°C), P_T	80W
Thermal Resistance, Junction–to–Case, R_{thJC}	2.2°C/W
Junction Temperature Range, T_J	–65° to +200°C
Storage Temperature Range, T_{stg}	–65° to +200°C

Electrical Characteristics:

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector–Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 200mA, I_B = 0, \text{Note 1}$	18	–	–	V
Collector–Emitter Breakdown Voltage	$V_{(BR)CES}$	$I_C = 200mA, V_{BE} = 0, \text{Note 1}$	36	–	–	V
Emitter–Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 2.5mA, I_C = 0$	4	–	–	V
Collector Cut–Off Current	I_{CBO}	$V_{CB} = 15V, I_E = 0$	–	–	1	mA
DC Current Gain	h_{FE}	$V_{CE} = 5V, I_C = 250mA$	10	–	–	
Gain Bandwidth	f_t	$V_{CE} = 13.5V, I_C = 100mA$	200	–	–	MHz
Output Capacitance	C_{ob}	$V_{CB} = 12.5V, I_C = 0, -F_O = 1.0MHz$	–	–	200	pF
Amplifier Power Out	P_O	28MHz/12.5V	47	–	–	W
Amplifier Power Gain	P_g		10	–	–	dB

Note 1. Pulsed through 25mH Inductor



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](#)