

PNP SILICON DUAL TRANSISTOR

Qualified per MIL-PRF-19500 /336

DEVICES

2N3810 2N3811
 2N3810L 2N3811L
 2N3810U 2N3811U

LEVELS

JAN
 JANTX
 JANTV
 JANS

ABSOLUTE MAXIMUM RATINGS ($T_C = +25^\circ\text{C}$ unless otherwise noted)

Parameters / Test Conditions	Symbol	Value		Unit
Collector-Emitter Voltage	V_{CEO}	60		Vdc
Collector-Base Voltage	V_{CBO}	60		Vdc
Emitter-Base Voltage	V_{EBO}	5.0		Vdc
Collector Current	I_C	50		mAdc
		One Section ¹	Both Sections ²	
Total Power Dissipation @ $T_A = +25^\circ\text{C}$	P_T	200	350	mW
Operating & Storage Junction Temperature Range	T_J, T_{stg}	-65 to +200		$^\circ\text{C}$



TO-78

Note:

- Derate linearly 1.143mW/ $^\circ\text{C}$ for $T_A > +25^\circ\text{C}$ (one section)
- Derate linearly 2.00mW/ $^\circ\text{C}$ for $T_A > +25^\circ\text{C}$ (both sections)

ELECTRICAL CHARACTERISTICS ($T_A = +25^\circ\text{C}$, unless otherwise noted)

Parameters / Test Conditions	Symbol	Min.	Max.	Unit
OFF CHARACTERISTICS				
Collector-Emitter Breakdown Voltage $I_C = 100\mu\text{Adc}$	$V_{(BR)CEO}$	60		Vdc
Collector-Base Cutoff Current $V_{CB} = 50\text{Vdc}$ $V_{CB} = 60\text{Vdc}$	I_{CBO}		10 10	ηAdc μAdc
Emitter-Base Cutoff Current $V_{EB} = 4.0\text{Vdc}$ $V_{EB} = 5.0\text{Vdc}$	I_{EBO}		10 10	ηAdc μAdc



TECHNICAL DATA SHEET

6 Lake Street, Lawrence, MA 01841
 1-800-446-1158 / (978) 620-2600 / Fax: (978) 689-0803
 Website: <http://www.microsemi.com>

PNP SILICON DUAL TRANSISTOR *Qualified per MIL-PRF-19500 /336*

DYNAMIC CHARACTERISTICS (cont.)

Parameters / Test Conditions	Symbol	Min.	Max.	Unit
Noise Figure				
$I_C = 100\mu\text{A}$ dc, $V_{CE} = 10\text{V}$ dc, $f = 100\text{Hz}$, $R_G = 3.0\text{k}\Omega$ 2N3810, L, U	F ₁		7.0	dB
$I_C = 100\mu\text{A}$ dc, $V_{CE} = 10\text{V}$ dc, $f = 1.0\text{kHz}$, $R_G = 3.0\text{k}\Omega$ 2N3810, L, U	F ₂		3.0	
$I_C = 100\mu\text{A}$ dc, $V_{CE} = 10\text{V}$ dc, $f = 10\text{kHz}$, $R_G = 3.0\text{k}\Omega$ 2N3810, L, U	F ₃		2.5	
$I_C = 100\mu\text{A}$ dc, $V_{CE} = 10\text{V}$ dc, $f = 10\text{Hz to } 15.7\text{kHz}$, $R_G = 3.0\text{k}\Omega$ 2N3810, L, U	F ₄		3.5	
$I_C = 100\mu\text{A}$ dc, $V_{CE} = 10\text{V}$ dc, $f = 100\text{Hz}$, $R_G = 3.0\text{k}\Omega$ 2N3811, L, U	F ₁		4.0	dB
$I_C = 100\mu\text{A}$ dc, $V_{CE} = 10\text{V}$ dc, $f = 1.0\text{kHz}$, $R_G = 3.0\text{k}\Omega$ 2N3811, L, U	F ₂		1.5	
$I_C = 100\mu\text{A}$ dc, $V_{CE} = 10\text{V}$ dc, $f = 10\text{kHz}$, $R_G = 3.0\text{k}\Omega$ 2N3811, L, U	F ₃		2.0	
$I_C = 100\mu\text{A}$ dc, $V_{CE} = 10\text{V}$ dc, $f = 10\text{Hz to } 15.7\text{kHz}$, $R_G = 3.0\text{k}\Omega$ 2N3811, L, U	F ₄		2.5	

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 [Microsemi 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](#)