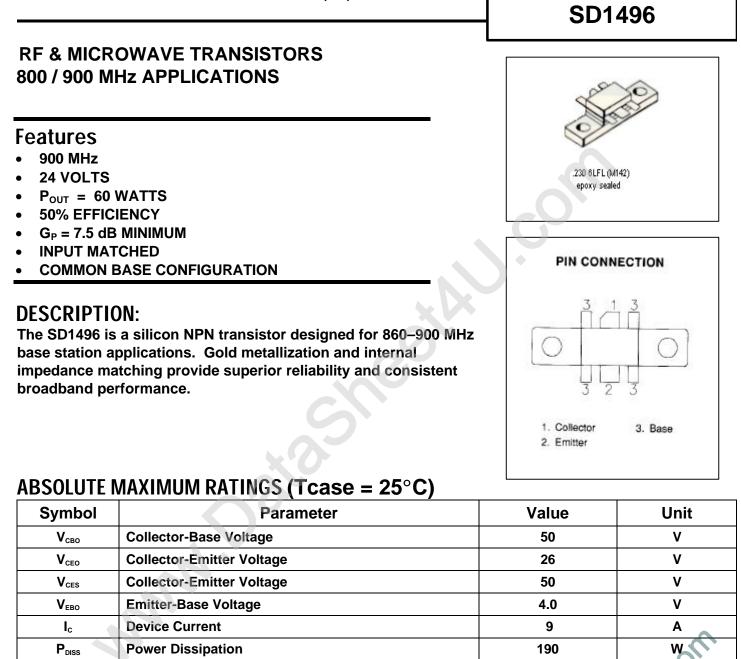


**140 COMMERCE DRIVE MONTGOMERYVILLE, PA** 18936-1013 PHONE: (215) 631-9840 FAX: (215) 631-9855



|--|

T<sub>STG</sub>

ТJ

**Storage Temperature** 

**Junction Temperature** 

°C/W

°C

٥C

-65 to +150

+200

0.9



SD1496

## ELECTRICAL SPECIFICATIONS (Tcase = 25°C) STATIC

Symbol	Test Conditions		Value			Unit
			Min.	Тур.	Max.	Unit
BV <sub>CBO</sub>	I <sub>c</sub> = 50 mA	I <sub>E</sub> = 0 mA	50			v
BV <sub>CES</sub>	I <sub>C</sub> = 50 mA	$V_{BE} = 0 mA$	50			V
BV <sub>CEO</sub>	I <sub>c</sub> = 5.0 mA	I <sub>B</sub> = 0 mA	26			V
BV <sub>EBO</sub>	I <sub>E</sub> = 10 mA	$I_c = 0 mA$	3.0			V
I <sub>CES</sub>	V <sub>CE</sub> = 20 V	I <sub>E</sub> = 0 mA			10	mA
І <sub>сво</sub>	V <sub>CB</sub> = 30 V	Ι <sub>Ε</sub> = 0 mA			5	mA
h <sub>FE</sub>	$V_{CE} = 5.0 V$	I <sub>C</sub> = 1 A	20		100	

### DYNAMIC

Symbol	Test Conditions			Value			Unit
Symbol Test Conditions				Min. Typ. Max.			
Ρουτ	f = 860 - 900MHz	P <sub>IN</sub> = 10.6W	V <sub>CE</sub> = 24V	60			dB
G <sub>P</sub>	f = 860 - 900MHz	P <sub>IN</sub> = 10.6W	$V_{ce} = 24V$	7.5			dB
η <sub>c</sub>	f = 860 - 900MHz	P <sub>IN</sub> = 10.6W	$V_{ce} = 24V$		50		%
Сов	f = 1 MHz	$V_{CB} = 24V$			55		pF

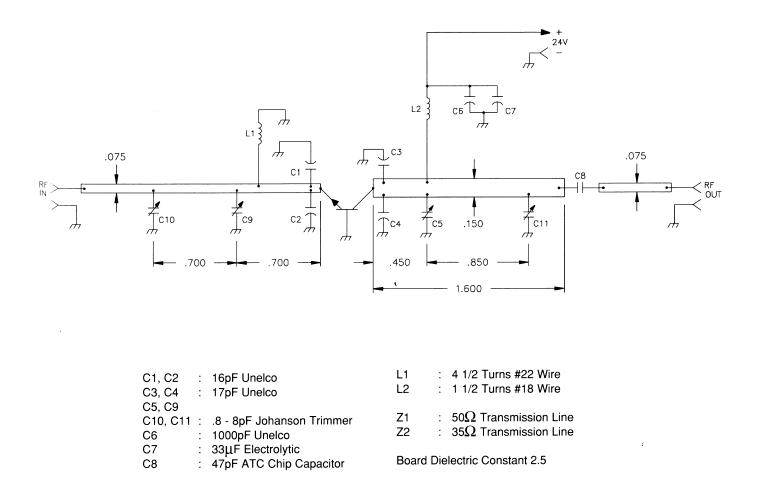


# SD1496

#### **IMPEDANCE DATA**

FREQ	<b>Ζ<sub>IN</sub>(</b> Ω)	<b>Ζ<sub>CL</sub>(</b> Ω)
900 MHz	1.0 + j4.9	1.40 + j1.3
890 MHz	1.2 + j5.1	1.35 + j1.2
880 MHz	1.45 + j5.2	1.25 + j1.1
860 MHz	2.0 + j5.4	1.15 + j0.85

### **TEST CIRCUIT**





SD1496

### PACKAGE MECHANICAL DATA

#### PACKAGE STYLE M142

.720/18,29

.970/24,64

.355/9,02

F

G H .730/18,54

.980/24,89

.365/9,27

