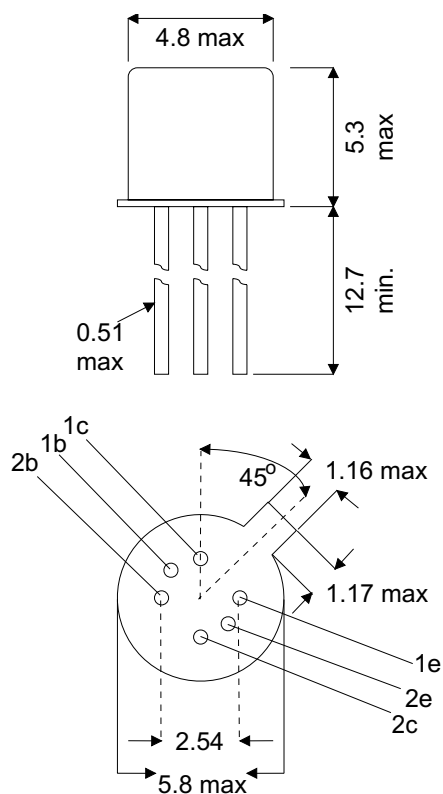


MECHANICAL DATA

Dimensions in mm



TO71 PACKAGE

NPN SILICON PLANAR DUAL TRANSISTORS

APPLICATIONS

- Differential Amplifier
- General purpose applications.

ABSOLUTE MAXIMUM RATINGS ($T_{case} = 25^{\circ}C$ unless otherwise stated)

V_{CBO}	Collector – Base Voltage	45V
V_{CEO}	Collector – Emitter Voltage	40V
P_{TOT}	Total Power Dissipation	150mW
T_J	Junction Temperature	175°C

ELECTRICAL CHARACTERISTICS (T_{case} = 25°C unless otherwise stated)

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I _{CBO} Collector Cut-Off Current	V _{CB} = 20V I _E = 0			10	nA
h _{FE} DC Current Gain	I _C = 50μA V _{CB} = 10V	100		450	—
	I _C = 10mA V _{CB} = 10V	100		600	
f _T Transistion Frequency	-I _E = 50μA V _{CB} = 10V	10			MHz
	-I _E = 50μA V _{CB} = 10V	50			
C _c Collector-Capacitance at f = 1MHz	I _E = I _e = 0 V _{CB} = 10V			3.5	pF
NF Noise Figure	I _C = 50μA V _{CE} = 5V			4	dB
	f = 10Hz to 15Hz R _S = 10kΩ				
	I _C = 50μA V _{CE} = 5V			5	
	f = 200Hz R _S = Opt.				

MATCHING CHARACTERISTICS

Parameter	Test Conditions	Unit
I _{1C} /I _{2C} Ratio of Collector Currents V _{1B-1E} = V _{2B-2E}	V _{1B-1E} = V _{2B-2E}	0.67-1.5
V _{1B-1E} - V _{2B-2E} Difference between Base-Emitter Voltages	I _{1C} = I _{2C}	10mV
I _{1B} - I _{2B} Difference between Base Currents	V _{1B-1E} = V _{2B-2E}	300nA
h _{1FE} /h _{2FE} D.C. Current Gain Ration	I _{1C} = I _{2C}	—