



2N1671 – 2N1671A – 2N1671B

PN BAR-TYPE SILICON UNIJUNCTION TRANSISTORS

They are designed for medium-power switching, oscillator and pulse timing circuits.
Package outline is similar to TO-5 except

- Highly Stable Negative Resistance and Firing Voltage
- Low Firing Current
- High Pulse Current Capabilities
- Simplified Circuit Design

ABSOLUTE MAXIMUM RATINGS

Symbol	Ratings	Value	Unit	
V_{B1E}	Base 1 – Emitter Reverse Voltage	2N1671	30	V
		2N1671A		
		2N1671B		
V_{B2E}	Base 2 – Emitter Reverse Voltage	2N1671	30	V
		2N1671A		
		2N1671B		
V_{B1B2}	Interbase Voltage	2N1671	35	V
		2N1671A		
		2N1671B		
I_{FRMS}	RMS Emitter Current	2N1671	50	mA
		2N1671A		
		2N1671B		
I_{EM}	Emitter Peak Current	2N1671	2	A
		2N1671A		
		2N1671B		
P_{TOT}	Total Power Dissipation	2N1671	450	mW
		2N1671A		
		2N1671B		
T_J	Maximum Junction	2N1671	150	°C
		2N1671A		
		2N1671B		
T_{STG}	Storage Temperature Range	2N1671	-55 to +150	
		2N1671A		
		2N1671B		

This data guaranteed in addition to JEDEC registered data

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ELECTRICAL CHARACTERISTICS

TC=25°C unless otherwise noted

Symbol	Ratings	Test Condition(s)	Min	Typ	Mx	Unit	
I_{EB20}	Emitter Reverse Current	$V_{B2E}=30\text{ V}, I_{B1}=0$	2N1671	-	-	-12	μA
			2N1671A	-	-	-12	
			2N1671B	-	-	-0.2	
$V_{EB1(\text{sat})}$	Emitter saturation Voltage	$V_{B2B1}=10\text{ V}, I_E=50\text{ mA}$	2N1671	-	-	5	V
			2N1671A	-	-	5	
			2N1671B	-	-	5	
R_{BBO}	Interbase Resistance	$V_{B2B1}=3\text{ V}, I_E=0$	2N1671	4.7	-	9.1	$\text{K}\square$
			2N1671A	4.7	-	9.1	
			2N1671B	4.7	-	9.1	
η	Intrinsic stand-off ratio	$V_{B2B1}=10\text{ V}$	2N1671	0.47	-	0.62	-
			2N1671A	0.47	-	0.62	
			2N1671B	0.47	-	0.62	
I_V	Valley Current	$V_{B2B1}=10\text{ V}, R_{B2}=100\ \square$	2N1671	-	-	8	mA
			2N1671A	-	-	8	
			2N1671B	-	-	8	
I_P	Peak Current	$V_{B2B1}=25\text{ V}$	2N1671	-	-	25	μA
			2N1671A	-	-	25	
			2N1671B	-	-	6	

MECHANICAL DATA CASE TO-5

* ALL LEADS INSULATED FROM CASE.

NOTES

A. This zone is controlled for automatic handling. The variation in actual diameter within this zone shall not exceed 0.010.

B. Measured from max. diameter of the actual device.

C. The specified lead diameter applies in the zone between 0.050 and 0.250 from the base seat. Between 0.250 and 1.5 maximum of 0.021 diameter is held. Outside of these zones the lead diameter is not controlled.

DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED

Information furnished is believed to be accurate and reliable. However, CS assumes no responsibility for the consequences of use of such information nor for errors that could appear.

Data are subject to change without notice.