



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

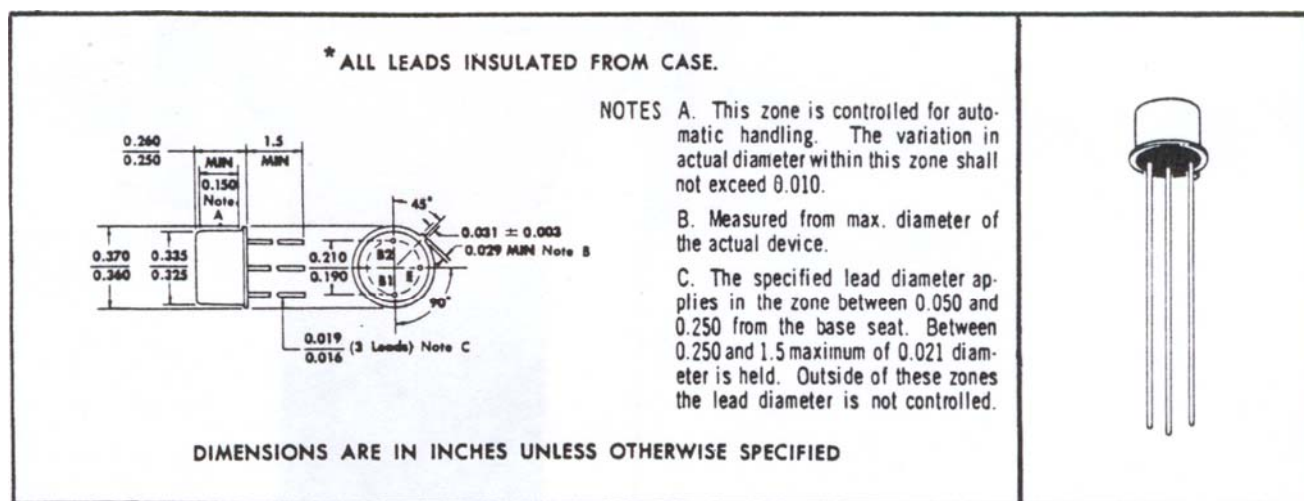
TC=25°C unless otherwise noted

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	

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MECHANICAL DATA CASE TO-5

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