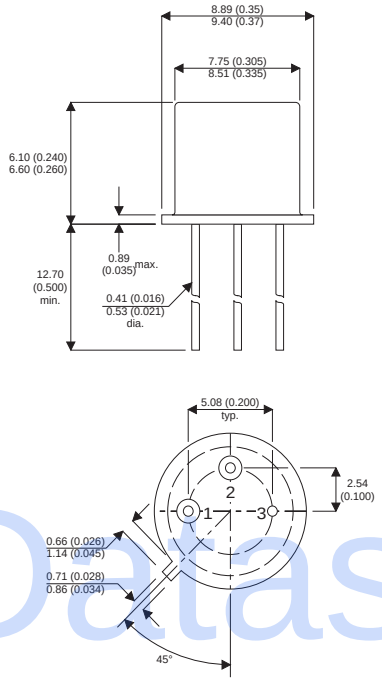
2N5322
2N5323

MECHANICAL DATA
Dimensions in mm (inches)



TO-39

Pin 1 – Emitter Pin 2 – Base Pin 3 – Collector

HIGH SPEED MEDIUM VOLTAGE SWITCHES

DESCRIPTION

The 2N5322 and 2n5323 are silicon planar expitaxial PNP transistors in jedec TO-39 metal case intended for high voltage medium power applications in industrial and commercial equipment.

The complementary NPN types are the 2N5320 and 2N5321 respectively

Datasheet.Live

ABSOLUTE MAXIMUM RATINGS

T_{CASE} = 25°c unless otherwise stated		2N5322	2N5323
V_{CBO}	Collector – Base Voltage (I_E = 0)	-100V	-75V
V_{CEV}	Collector – Emitter Voltage (V_{BE} = 1.5v)	-100V	-75V
V_{CEO}	Emitter – Base Voltage (I_B = 0)	-75V	-50V
V_{EBO}	Emitter – Base Voltage (I_C = 0)	-6V	-5V
I_C	Continuous Collector Current	-2A	
I_B	Base Current	-1A	
P_{tot}	Total Dissipation at T_{amb} = 25°C	1W	
	T_{case} = 50°C	10W	
T_{stg}, T_j	Storage and Junction temperature	–65 to +200°C	

THERMAL DATA

$R_{thj\text{-}case}$	Thermal Resistance Junction-case	Max	17.5	°C/W
$R_{thj\text{-}amb}$	Thermal Resistance Junction-ambient	Max	175	°C/W

Semelab Plc reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by Semelab is believed to be both accurate and reliable at the time of going to press. However Semelab assumes no responsibility for any errors or omissions discovered in its use. Semelab encourages customers to verify that datasheets are current before placing orders.

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SEME LAB

2N5322
2N5323

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

	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I_{CBO}	Collector Cut Off Current	V_{CB} = -80V I_E = 0 **2N5322**			-0.5	µA
		V_{CB} = -60V I_E = 0 **2N5323**			-5	
I_{EBO}	Emitter Cut Off Current	V_{EB} = -5V I_C = 0 **2N5322**			-0.1	µA
		V_{EB} = -4V I_C = 0 **2N5323**			-0.5	
$V_{(BR)CEV}$	Collector Emitter Breakdown Voltage	V_{BE} = 1.5V I_C = -0.1mA				V
		2N5322	-100			
		2N5323	-75			
$V_{CEO(SUS)*}$	Collector Emitter Saturation Voltage	I_C = -10mA I_B = 0				pF
		2N5322	-75			
		2N5323	-50			
$V_{(BR)EBO}$	Emitter Base Breakdown Voltage	I_E = -0.1mA I_C = 0				V
		2N5322	-6			
		2N5323	-5			
$V_{CE(sat)*}$	Collector Emitter Saturation Voltage	I_C = -500mA I_B = -50mA				V
		2N5322			-0.7	
		2N5323			-1.2	
V_{BE*}	Base Emitter Voltage	I_C = -500mA V_{CE} = -4V				V
		2N5322			-1.1	
		2N5323			-1.4	
h_{FE*}	DC Current Gain	I_C = -500mA V_{CE} = -4V	30		130	—
		I_C = -1A V_{CE} = -2V	10			
		2N5322				
		I_C = -500mA V_{CE} = -4V	40		250	
		2N5323				
f_T	Transistion Frequency	I_C = -50mA V_{CE} = -4V	50			MHz
t_{on}	Turn-On Time	I_C = -500mA V_{CC} = -30V			100	ns
		I_{B1} = -50mA				
t_{off}	Turn Off Time	I_C = -500mA V_{CC} = -30V			1000	
		I_{B1}=-I_{B2} = -50mA				

* Pulse test t_p = 300µs , δ = 1 %

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Part number search for devices beginning "2N5323"

Semelab Home

Datasheets are downloaded as Acrobat PDF files.

Bipolar Products

PRODUCT	Polarity	Package	V_{CEO}	$I_{C(cont)}$	$H_{FE(min)}$	$H_{FE(max)}$	@ V_{CE}/I_C	F_T	P_D
2N5323	PNP	TO39	50V	2A	40	250	4/0.5	50MHz	10W

Searched through 3083 records and found 1 products matching your criteria.

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