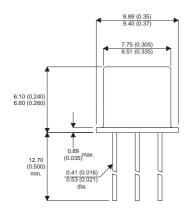
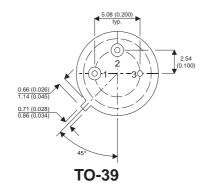




MECHANICAL DATA

Dimensions in mm (inches)





Pin 1 - Emitter

Pin 2 - Base

Pin 3 - Collector

HIGH SPEED MEDIUM VOLTAGE SWITCH

DESCRIPTION

The 2N4033 is a silicon expitaxial planar PNP transistors in jedec TO-39 metal case intended for use in switching applications.

ABSOLUTE MAXIMUM RATINGS T_{case} = 25°c unless otherwise stated

V_{CEO}	Collector – Emitter Voltage	-80V
V_{CBO}	Collector - Base Voltage	-80V
V_{EBO}	Emitter – Base Voltage	-5V
$I_{\mathbb{C}}$	Continuous Collector Current	-1A
P_{D}	Total Device Dissipation at T _A = 25°C	0.8W
	Derate above 25°C	4.56 mW/°C
P_{D}	Total Device Dissipation at $T_C = 25$ °C	4W
	Derate above 25°C	22.8mW/°C
T _{stg}	Operating and Storage Temperature Range	−65 to +200°C

Semelab PIc 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.

E-mail: sales@semelab.co.uk

Semelab plc. Telephone +44(0)1455 556565. Fax +44(0)1455 552612.

Website: http://www.semelab.co.uk

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THERMAL CHARATERISTICS

R _{thj-case}	Thermal Resistance Junction-case	Max	25	°C/W
R _{thj-amb}	Thermal Resistance Junction-ambient	Max	140	°C/W

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

-50	nA
-50	μΑ
-10	μΑ
-0.15 0.50	V
-0.9	V
-1.1	V
	V
	V
	V
	_
300	
20	pF
110	
5.0	_
100	ns
50	
350	
	110 5.0 100 50

 $^{^{1}}Pulse\ test\ t_{p}=300\mu s$, $\delta=1\%$

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