

Technical Data

TRANSISTOR



maximum ratings

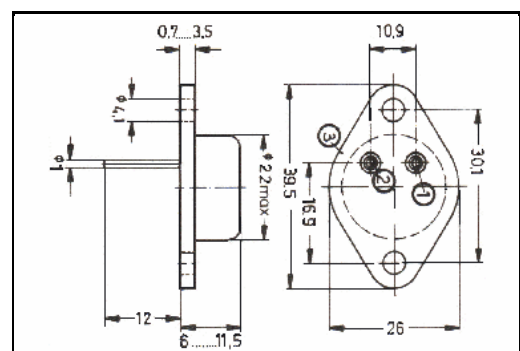
Voltage, Collector to Base (VCBO)	60.0	V	NO.	1N4902
Voltage, Collector to Emitter (VCE)	60.0	V	TYPE	PNP
Voltage, Emitter to Base (VEBO)	5.0	V		
Collector Current (IC)	5.0	A		
Base Current (IB)	1.0	A	CASE	TO-3
Max. Power Dissipation (PT) at TC = 25 °C	100.0	W		
Max. Thermal Resistance (Rth J-C)	1.75	°C/W		
Max. Junction Temperature (TJ)	200.0	°C		

PERFORMANCE CHARACTERISTICS at $T_c = 25^\circ\text{C}$, unless otherwise noted

NO.	SYMBOL	CONDITIONS	MIN.	MAX.	UNITS
1.	BVCEO	IC = 200.0 mA (1)	60.0	-	V
2.	ICEO	VCE = 60.0 V	-	1.0	mA
3.	ICEX	VCE = 60.0 V, VEB = 1.5 V	-	0.1	mA
4.	ICEX	VCE = 60.0 V, VEB = 1.5 V, TC = 150.0° C	-	2.0	mA
5.	ICBO	VCB = 60.0 V	-	0.1	mA
6.	IEBO	VBE = 5.0 V	-	1.0	mA
7.	hFE	IC = 1.0 A, VCE = 2.0 V (1)	20.0	80.0	-
8.	hFE	IC = 5.0 A, VCE = 2.0 V (1)	7.0	-	-
9.	VCE(SAT)	IC = 1.0 A, IB = 0.1 A (1)	-	0.4	V
10.	VCE(SAT)	IC = 5.0 A, IB = 1.0 A (1)	-	1.5	V
11.	VBE(ON)	IC = 1.0 A, VCE = 2.0 V (1)	-	1.2	V
12.	fT	IC = 1.0 A, VCE = 10.0 V, f = 1.0 MHz	4.0	-	MHz
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

Notes (1)pulse-tested $t_p \leq 300 \mu\text{s}$, duty cycle $\leq 2\%$

DIMENSIONS
in mm



Marking 1N4902
Customer GENERAL PURPOSE