NPN Silicon Epitaxial Planar Transistor

The transistor is subdivided into three groups $\mathsf{Q},\,\mathsf{R}$ and S according to its DC current gain.



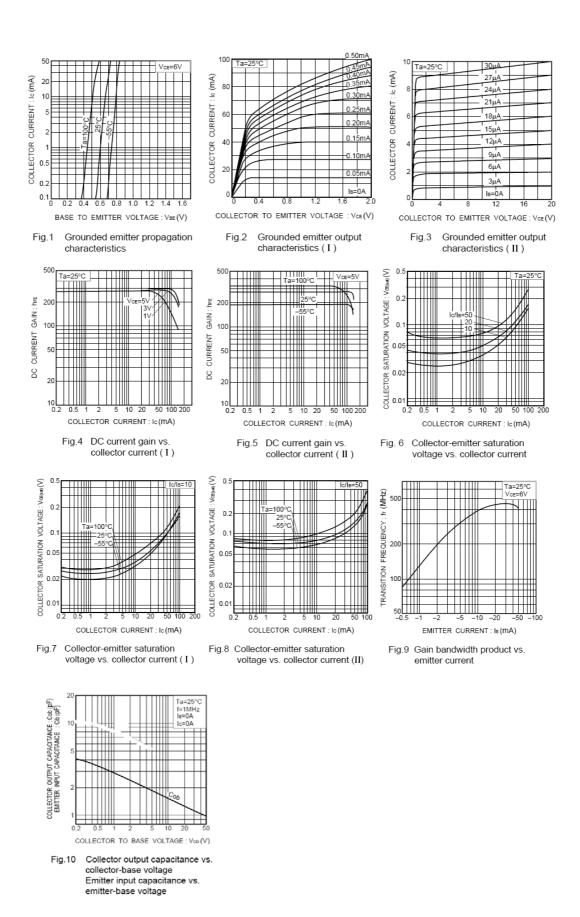
1.Base 2.Emitter 3.Collector SOT-323 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V _{CBO}	60	V
Collector Emitter Voltage	V _{CEO}	50	V
Emitter Base Voltage	V _{EBO}	7	V
Collector Current	I _C	150	mA
Power Dissipation	P _{tot}	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

Characteristics at T_a = 25 °C

Characteristics at I _a = 25 °C		ı	1	1	ı	
Parameter		Symbol	Min.	Тур.	Max.	Unit
DC Current Gain at $V_{CE} = 6 \text{ V}$, $I_C = 1 \text{ mA}$ Current Gain Group	Q R S	h _{FE} h _{FE}	120 180 270	- - -	270 390 560	- - -
Collector Base Cutoff Current at V _{CB} = 60 V		I _{CBO}	ı	ı	0.1	μΑ
Emitter Base Cutoff Current at V _{EB} = 7 V		I _{EBO}	ı	ı	0.1	μΑ
Collector Base Breakdown Voltage at $I_C = 50 \mu A$		$V_{(BR)CBO}$	60	-	-	V
Collector Emitter Breakdown Voltage at I _C = 1 mA		$V_{(BR)CEO}$	50	1	-	V
Emitter Base Breakdown Voltage at $I_E = 50 \mu A$		$V_{(BR)EBO}$	7	1	-	V
Collector Emitter Saturation Voltage at $I_C = 50$ mA, $I_B = 5$ mA		$V_{CE(sat)}$	-	-	0.4	V
Transition Frequency at $V_{CE} = 12 \text{ V}$, $-I_E = 2 \text{ mA}$, $f = 100 \text{ MHz}$		f⊤	-	180	-	MHz
Collector Output Capacitance at $V_{CB} = 12 \text{ V}$, $f = 1 \text{ MHz}$		C _{ob}	-	2	3.5	pF





X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by Hong Kong Chuangji manufacturer:

Other Similar products are found below:

619691C MCH4017-TL-H MMBT-2369-TR BC546/116 BC557/116 BSW67A NJVMJD148T4G NTE123AP-10 NTE153MCP NTE16

NTE195A NTE92 2N4401-A 2N6728 2SA1419T-TD-H 2SA2126-E 2SB1204S-TL-E 2SC2712S-GR,LF SP000011176 2N2907A 2N3904
NS 2N5769 2SC2412KT146S CPH6501-TL-E MCH4021-TL-E MJE340 Jantx2N5416 US6T6TR NJL0281DG 732314D CPH3121-TL-E

CPH6021-TL-H 873787E IMZ2AT108 MMST8098T146 UMX21NTR MCH6102-TL-E NJL0302DG 30A02MH-TL-E NTE13 NTE26

NTE282 NTE323 NTE350 NTE81 STX83003-AP JANTX2N2920L JANSR2N2222AUB CMLT3946EG TR 2SA1371D-AE