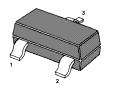
MMBTSC1815

NPN Silicon Epitaxial Planar Transistor

for switching and AF amplifier applications.

The transistor is subdivided into four groups O, Y, G and L, according to its DC current gain. As complementary type the PNP transistor MMBTSA1015 is recommended.



Base 2. Emitter 3. Collector
 TO-236 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

the column training (12 = 20 °)			
Parameter	Symbol	Value	Unit
Collector Base Voltage	V _{CBO}	60	V
Collector Emitter Voltage	V _{CEO}	50	V
Emitter Base Voltage	V _{EBO}	5	V
Collector Current	I _C	150	mA
Base Current	I _B	50	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_{amb}=25 °C

Parameter		Symbol	Min.	Max.	Unit
DC Current Gain					
at $V_{CE} = 6 \text{ V}$, $I_C = 2 \text{ mA}$ Current Gain Group	0	h _{FE}	70	140	-
	Υ	h _{FE}	120	240	-
	G	h _{FE}	200	400	-
ot // - 6 // - 150 m/	L	h _{FE}	350	700	-
at $V_{CE} = 6 \text{ V}, I_C = 150 \text{ mA}$		h _{FE}	25	-	-
Collector Base Cutoff Current at $V_{CB} = 60 \text{ V}$		I _{CBO}	-	100	nA
Emitter Base Cutoff Current at V _{EB} = 5 V		I _{EBO}	-	100	nA
Collector Emitter Saturation Voltage at $I_C = 100 \text{ mA}$, $I_B = 10 \text{ mA}$		V _{CE(sat)}	1	0.25	V
Base Emitter Saturation Voltage at $I_C = 100 \text{ mA}$, $I_B = 10 \text{ mA}$		$V_{BE(sat)}$	-	1	V
Gain Bandwidth Product at $V_{CE} = 10 \text{ V}$, $I_C = 1 \text{ mA}$		f _⊤	80	-	MHz
Output Capacitance at $V_{CB} = 10 \text{ V}$, $f = 1 \text{ MHz}$		C_{ob}	-	3	pF











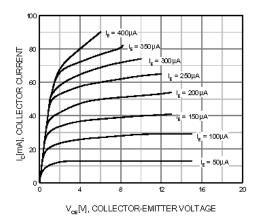


Figure 1. Static Characteristic

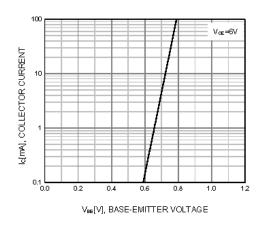


Figure 2. Transfer Characteristic

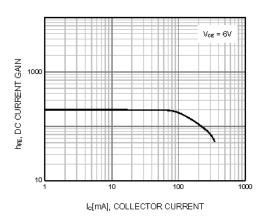


Figure 3. DC current Gain

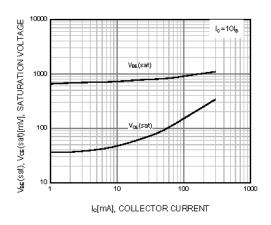


Figure 4. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

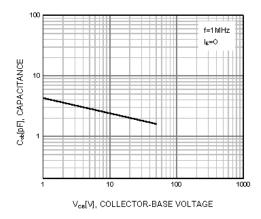


Figure 5. Output Capacitance

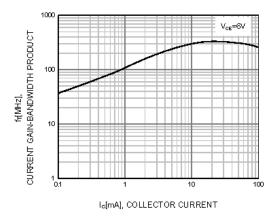


Figure 6. Current Gain Bandwidth Product















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 Semtech 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 C4460 2N4401-A 2N6728 2SA1419T-TD-H 2SA2126-E 2SB1204S-TL-E 2SC2712S-GR,LF 2SC5488A-TL-H

2SD2150T100R SP000011176 2N2907A 2N3904-NS 2N5769 2SC2412KT146S 2SD1816S-TL-E CPH6501-TL-E MCH4021-TL-E

MJE340 US6T6TR NJL0281DG 732314D CPH3121-TL-E CPH6021-TL-H 873787E IMZ2AT108 UMX21NTR MCH6102-TL-E

NJL0302DG 2N3583 30A02MH-TL-E NSV40301MZ4T1G NTE13 NTE26 NTE282 NTE323 NTE350 NTE81 STX83003-AP