## **PNP Silicon Epitaxial Planar Transistor**



1.Base 2.Collector 3.Emitter SOT-89 Plastic Package

## Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

Parameter	Symbol	Value	Unit
Collector Base Voltage	-V <sub>CBO</sub>	20	V
Collector Emitter Voltage	-V <sub>CEO</sub>	20	V
Emitter Base Voltage	-V <sub>EBO</sub>	6	V
Collector Current - DC Collector Current - Pulse 1)	-I <sub>C</sub> -I <sub>CP</sub>	3 5	A A
Total Power Dissipation	P <sub>tot</sub>	0.5	W
Junction Temperature	TJ	150	°C
Storage Temperature Range	T <sub>S</sub>	- 55 to + 150	°C

<sup>1)</sup> Single pulse, PW = 10 ms.

## Characteristics at T<sub>a</sub> = 25 °C

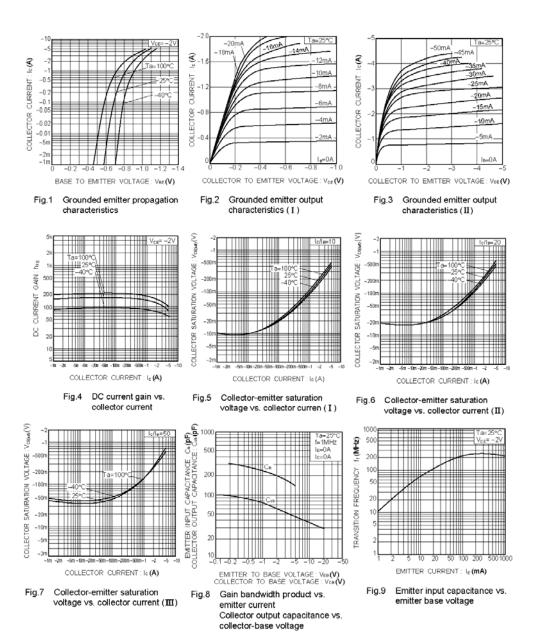
Parameter			Symbol	Min.	Тур.	Max.	Unit
DC Current Gain at -V <sub>CE</sub> = 2 V, -I <sub>C</sub> = 100 mA Current	nt Gain Group G		h <sub>FE</sub> h <sub>FE</sub>	120 180	-	270 390	-
Collector Base Breakdown Voltage at $-I_C = 50 \mu A$		-	-V <sub>(BR)CBO</sub>	20	ı	ı	V
Collector Emitter Breakdown Voltage at -I <sub>C</sub> = 1 mA		-	-V <sub>(BR)CEO</sub>	20	-	-	V
Emitter Base Breakdown Voltage at -I <sub>E</sub> = 50 μA		-	-V <sub>(BR)EBO</sub>	6	-	-	V
Collector Cutoff Current at -V <sub>CB</sub> = 20 V			-I <sub>CBO</sub>	-	ı	0.1	μΑ
Emitter Cutoff Current at -V <sub>EB</sub> = 5 V			-I <sub>EBO</sub>	-	ı	0.1	μΑ
Collector Emitter Saturation Voltage at $-I_C = 2 \text{ A}$ , $-I_B = 100 \text{ mA}$			-V <sub>CE(sat)</sub>	-	ı	0.5	V
Transition Frequency at $-V_{CE} = 2 \text{ V}$ , $-I_E = 0.5 \text{ A}$ , $f = 100 \text{ MHz}$			f <sub>T</sub>	-	240	1	MHz
Output Capacitance at -V <sub>CB</sub> = 10 V, f = 1 MHz			$C_{\sf ob}$	-	35	-	pF

















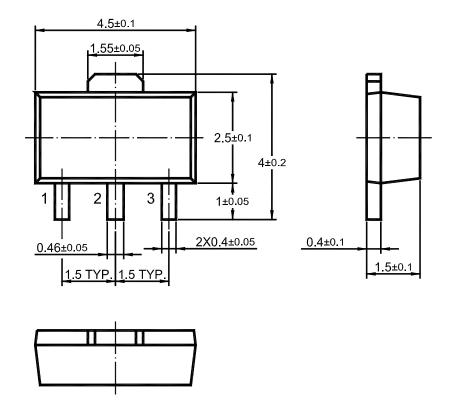






ISO/TS 16949 : 2002 ISO 14001:2004 Certificate No. 05103 Certificate No. 7116

## **SOT-89 PACKAGE OUTLINE**



Dimensions in mm







