

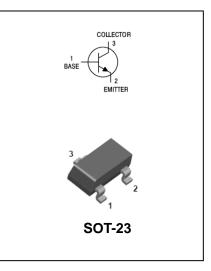
# **NPN General Purpose Transistor**

## FEATURES

- Epitaxial planar die construction.
- Complementary PNP type available (MMBT5401).
- Also available in lead free version.

### **APPLICATIONS**

• Ideal for medium power amplification and switching



#### MAXIMUM RATING @ Ta=25°C unless otherwise specified

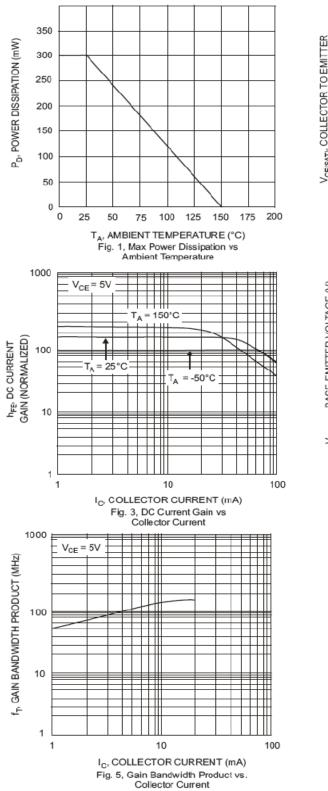
Symbol	Parameter	Value	UNIT
V <sub>CBO</sub>	collector-base voltage	180	V
V <sub>CEO</sub>	collector-emitter voltage	160	V
$V_{\text{EBO}}$	emitter-base voltage	6	V
I <sub>C</sub>	collector current (DC)	0.6	А
Pc	Collector dissipation	0.3	W
T <sub>j</sub> ,T <sub>stg</sub>	junction and storage temperature	-55-150	°C

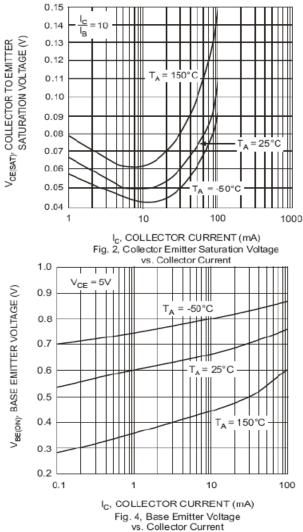
## ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Symbol	Parameter	Test conditions	MIN.	MAX.	UNIT
V <sub>(BR)CBO</sub>	Collector-base breakdown voltage	I <sub>C</sub> =100μΑ,I <sub>E</sub> =0	180		
V <sub>(BR)CEO</sub>	Collector-emitter breakdown voltage	I <sub>C</sub> =0.1mA,I <sub>B</sub> =0	160		
V <sub>(BR)EBO</sub>	Emitter-base breakdown voltage	I <sub>E</sub> =100μΑ,I <sub>C</sub> =0	6		
I <sub>CBO</sub>	collector cut-off current	I <sub>E</sub> = 0; V <sub>CB</sub> = 180V	-	0.1	μA
I <sub>EBO</sub>	emitter cut-off current	I <sub>C</sub> = 0; V <sub>EB</sub> = 4V	-	0.1	μA
		V <sub>CE</sub> = 5V; I <sub>C</sub> = 1mA	80	-	
h <sub>FE</sub>	DC current gain	$V_{CE} = 5V; I_{C} = 10mA$	80	250	
		$V_{CE}$ = 5V;I <sub>C</sub> = 50 mA	30	-	
V <sub>CE(sat)</sub>	collector-emitter saturation voltage	l <sub>C</sub> = 50 mA; l <sub>B</sub> = 5 mA	-	0.5	V
V <sub>BE(sat)</sub>	base-emitter saturation voltage	I <sub>C</sub> = 50 mA; I <sub>B</sub> = 5 mA	-	1	V
f <sub>T</sub>	transition frequency	I <sub>C</sub> = 10mA; V <sub>CE</sub> = 10V;	80	-	MHz
		f = 100MHz			





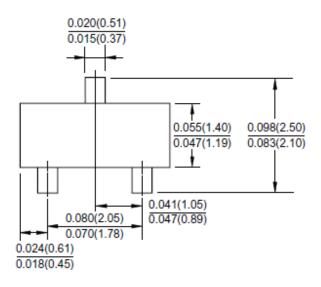


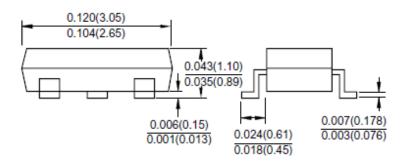




### Dimensions in inch (mm)

**SOT-23** 





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