

**MMBC1622D8**

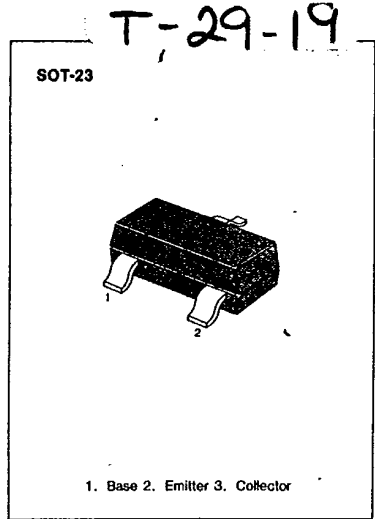
**NPN EPITAXIAL SILICON TRANSISTOR**

**AMPLIFIER TRANSISTOR**

**ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub> = 25°C)**

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V <sub>CB0</sub>	40	V
Collector-Emitter Voltage	V <sub>CE0</sub>	35	V
Emitter-Base Voltage	V <sub>EB0</sub>	5.0	V
Collector Current	I <sub>C</sub>	100	mA
Collector Dissipation	P <sub>C</sub>	350	mW
Storage Temperature	T <sub>stg</sub>	150	°C

• Refer to MMBC1622D6 for graphs



**ELECTRICAL CHARACTERISTICS (T<sub>a</sub> = 25°C)**

Characteristic	Symbol	Test Condition	Min	Max	Unit
Collector Cutoff Current	I <sub>CB0</sub>	V <sub>CB</sub> =25V, I <sub>E</sub> =0		50	nA
Emitter Cutoff Current	I <sub>EB0</sub>	V <sub>EB</sub> =5V, I <sub>C</sub> =0		50	nA
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> =3V, I <sub>C</sub> =0.1mA	150		
		V <sub>CE</sub> =3V, I <sub>C</sub> =0.5mA	450	900	
Collector-Emitter Saturation Voltage	V <sub>CE (sat)</sub>	I <sub>C</sub> =100mA, I <sub>B</sub> =10mA		0.3	V
Base-Emitter On Voltage	V <sub>BE (on)</sub>	I <sub>C</sub> =0.5mA, V <sub>CE</sub> =3V	0.55	0.65	V
Current Gain-Bandwidth Product	f <sub>T</sub>	V <sub>CE</sub> =6V, I <sub>E</sub> =1mA f=100MHz	100		MHz

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**Marking**

