



## TO-92 Plastic-Encapsulate Transistors

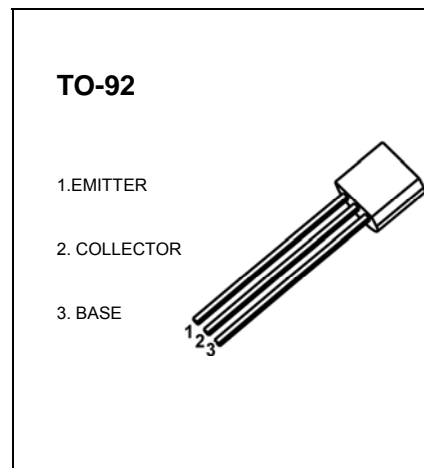
### D965 TRANSISTOR (NPN)

#### FEATURES

- Audio Amplifier
- Flash Unit of Camera
- Switching Circuit

#### MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V <sub>CB0</sub>	Collector-Base Voltage	42	V
V <sub>CEO</sub>	Collector-Emitter Voltage	22	V
V <sub>EBO</sub>	Emitter-Base Voltage	6	V
I <sub>C</sub>	Collector Current -Continuous	5	A
P <sub>C</sub>	Collector Power Dissipation	750	mW
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature	-55-150	°C



#### ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C unless otherwise specified)

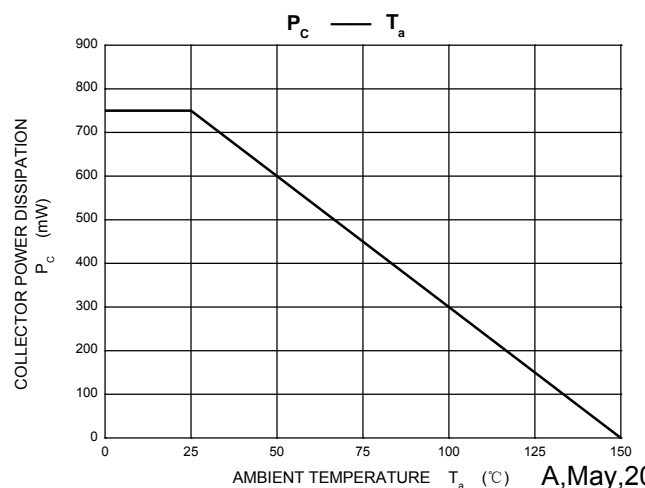
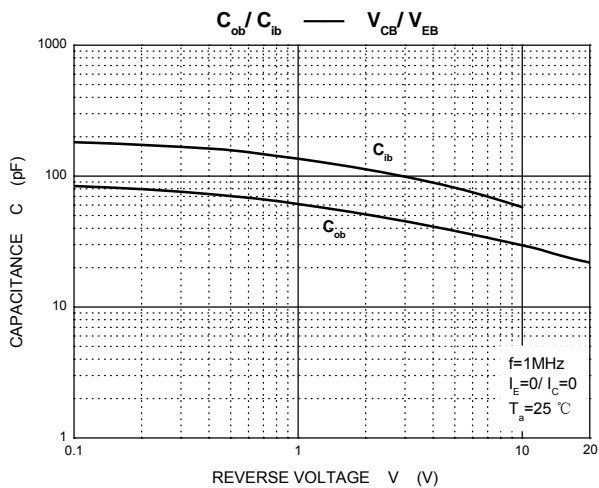
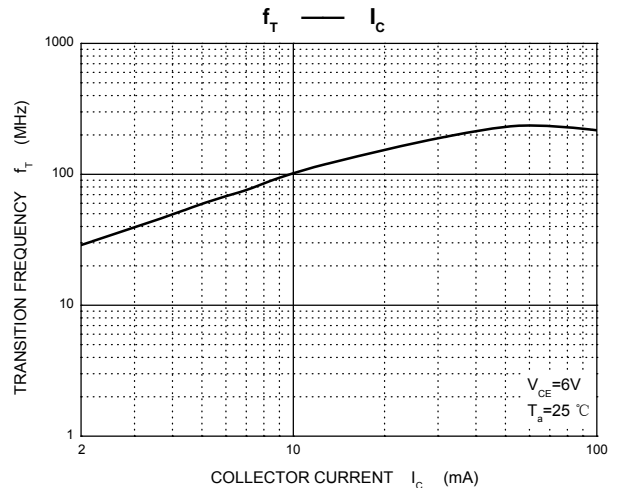
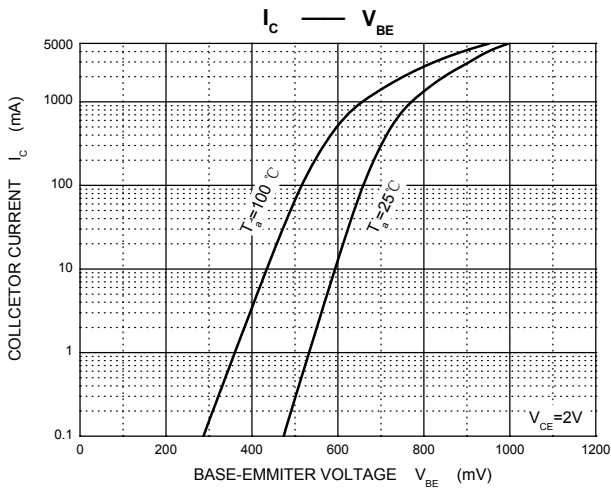
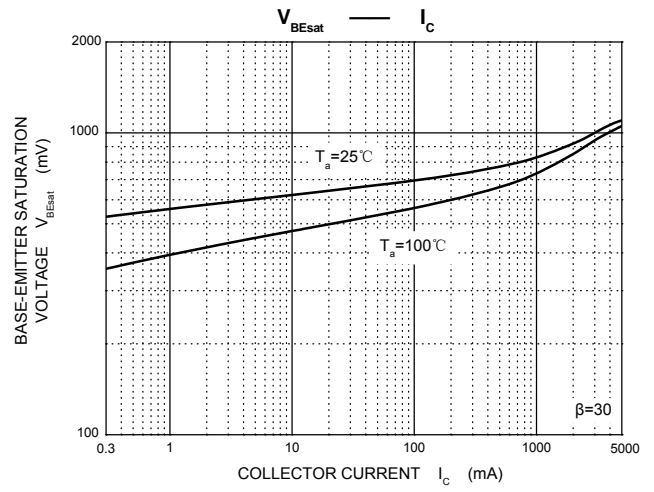
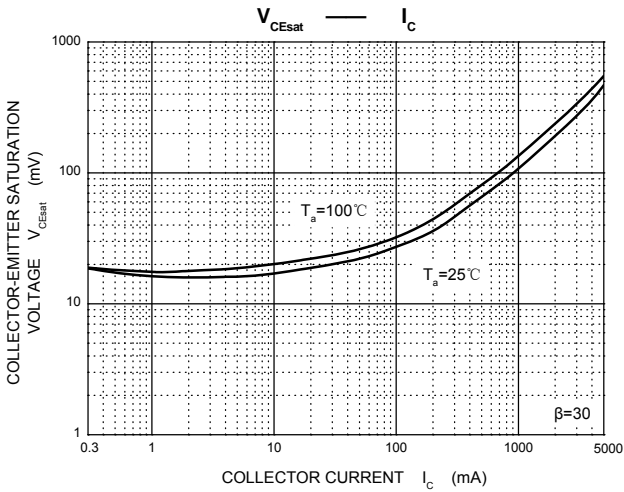
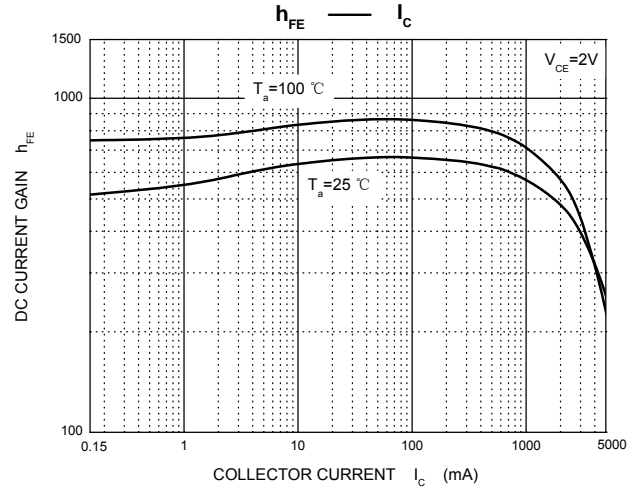
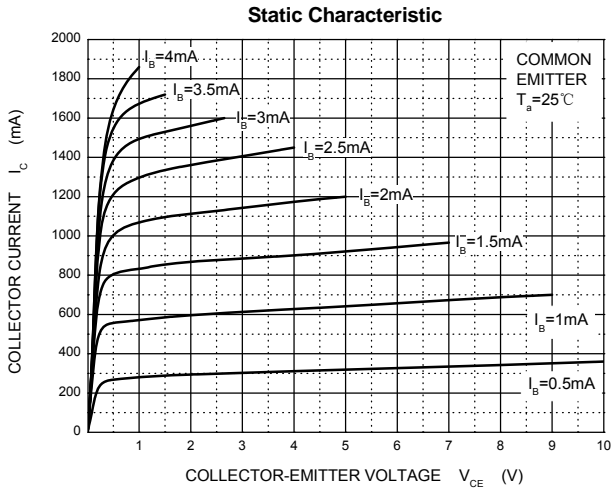
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =0.1mA, I <sub>E</sub> =0	42			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =1mA, I <sub>B</sub> =0	22			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> = 10μA, I <sub>C</sub> =0	6			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =30V, I <sub>E</sub> =0			0.1	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =6V, I <sub>C</sub> =0			0.1	μA
DC current gain	h <sub>FE(1)</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> = 0.15 mA	150			
	h <sub>FE(2)</sub>	V <sub>CE</sub> = 2V, I <sub>C</sub> = 500 mA	340		2000	
	h <sub>FE(3)</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> = 2A	150			
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =3000mA, I <sub>B</sub> =100 mA			0.35	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> =6V, I <sub>C</sub> =50mA, f=30MHz		150		MHz

#### CLASSIFICATION OF h<sub>FE(2)</sub>

Rank	R	T	V
Range	340-600	560-950	900-2000

# Typical Characteristics

# D965



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