

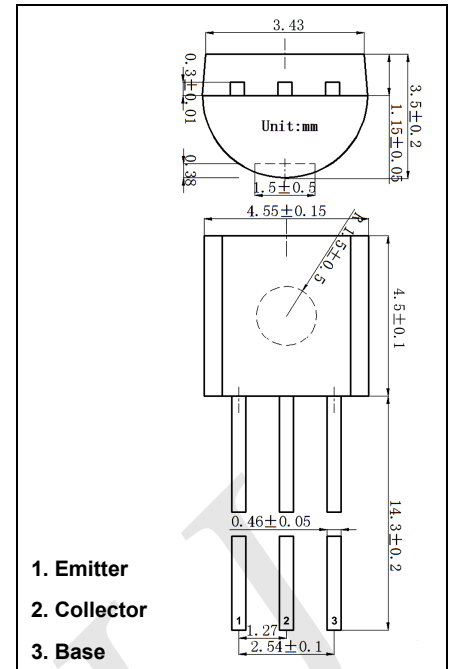
TO-92 Plastic-Encapsulate Transistors

D965R011 NPN Transistors

Features

- Audio Amplifier
- Flash Unit of Camera
- Switching Circuit

Marking: D965R011



Maximum Ratings (T_a=25°C unless otherwise noted)

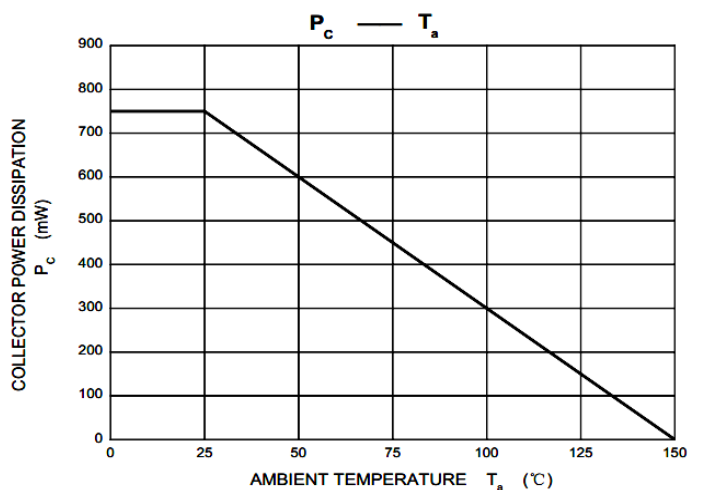
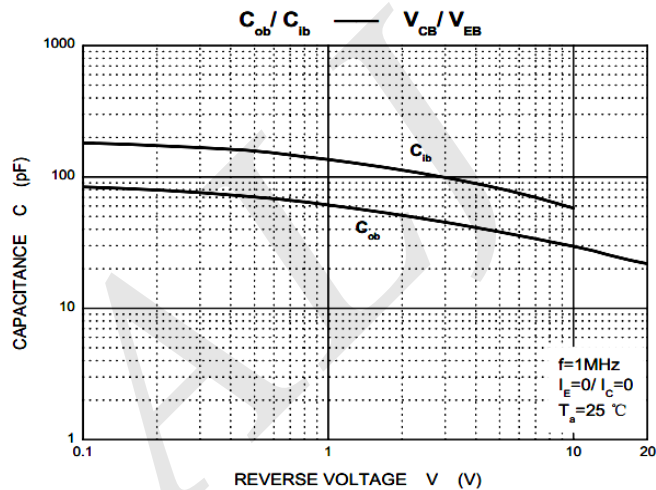
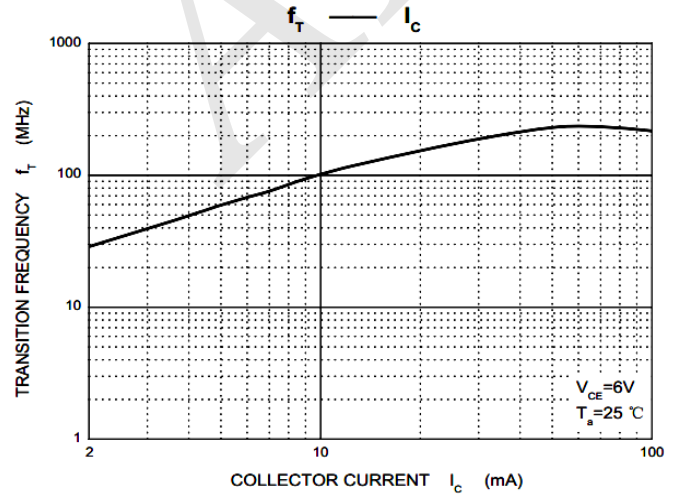
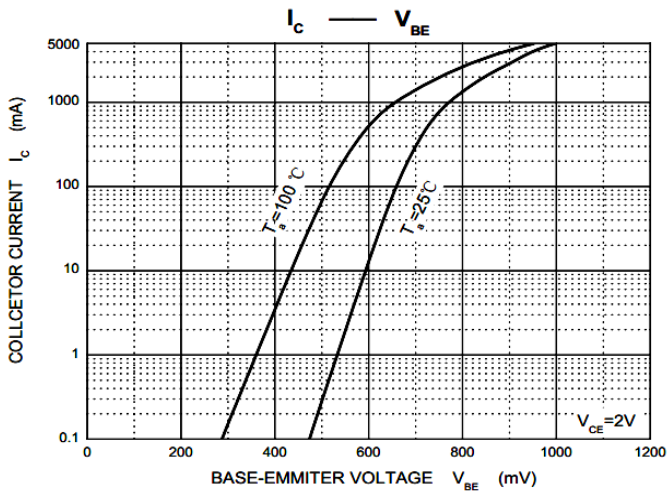
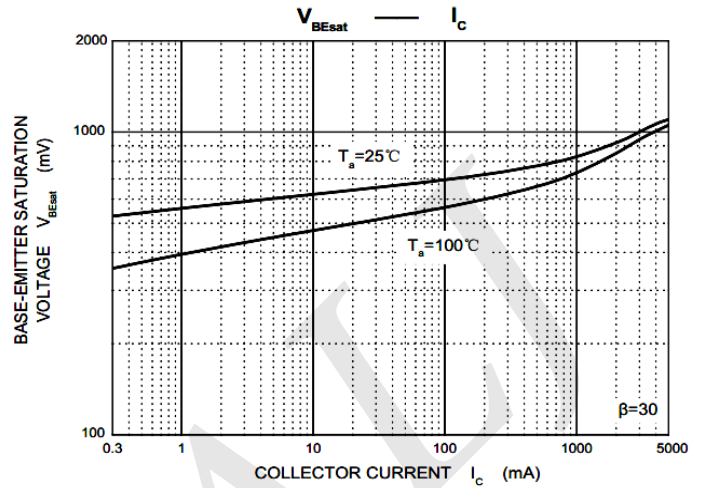
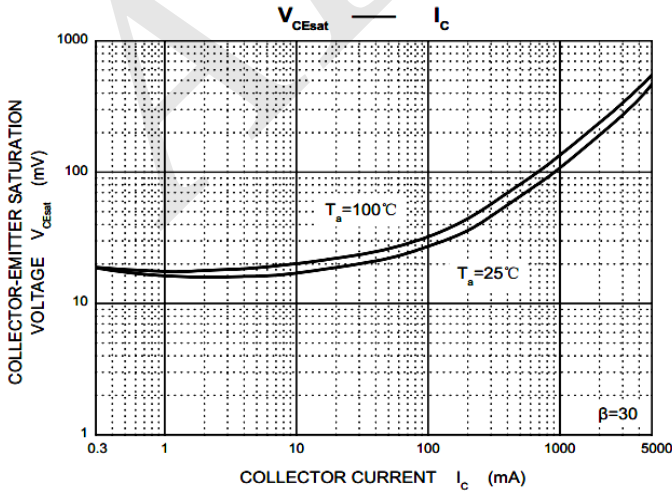
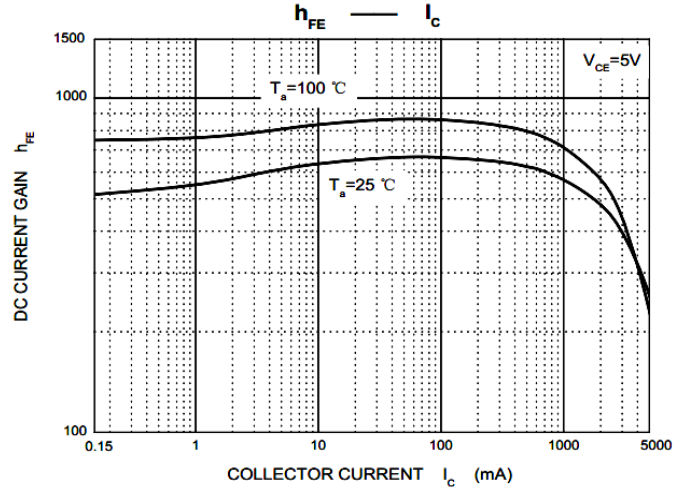
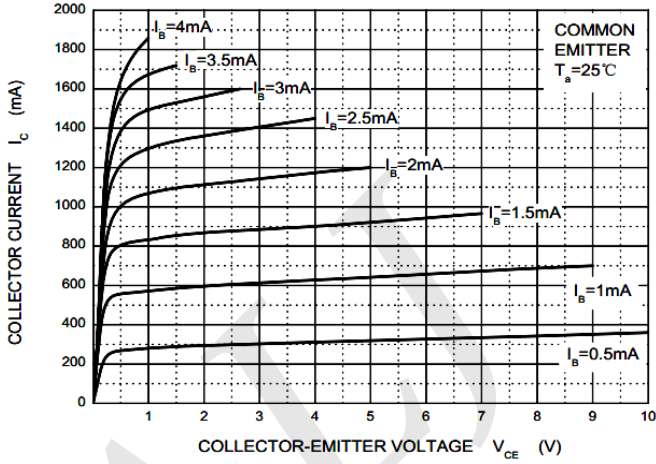
Symbol	Parameter	Value	Unit
V _{CB0}	Collector Base Voltage	42	V
V _{CEO}	Collector Emitter Voltage	22	V
V _{EBO}	Emitter Base Voltage	6	V
I _c	Collector Current	5	A
P _c	Collector Power Dissipation	750	mW
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55 ~ +150	°C

Electrical Characteristics (T_a=25°C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _c = 100μA, I _E = 0	42			V
V _{(BR)CEO*}	Collector-emitter breakdown voltage	I _c = 1mA, I _B = 0	22			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E = 10μA, I _c = 0	6			V
I _{cBO}	Collector cut-off current	V _{CB} = 30V, I _E = 0			100	nA
I _{EBO}	Emitter cut-off current	V _{EB} = 6V, I _c = 0			100	nA
h _{FE(1)}	DC current gain	V _{CE} = 5V, I _c = 1mA	150			
h _{FE(2)}		V _{CE} = 2V, I _c = 0.15mA	150			
h _{FE(3)}		V _{CE} = 2V, I _c = 500mA	600		1500	
h _{FE(4)}		V _{CE} = 2V, I _c = 2A	150			
V _{CE(sat)}	Collector-emitter saturation voltage	I _c = 3000mA, I _B = 100mA			0.35	V
f _T	Transition frequency	V _{CE} =6V, I _c =50mA, f=30MHz		150		MHz

Typical Characteristics

Static Characteristic



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