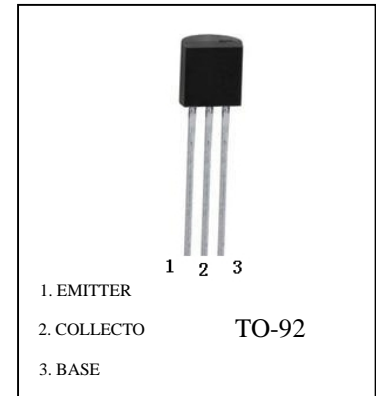


FEATURES

Audio amplifier
Flash unit of camera
Switching circuit

D965 (NPN)

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

Parameter	Symbol	Val	Units
Collector-Base Voltage	V _{CB0}	42	V
Collector-Emitter Voltage	V _{CEO}	22	V
Emitter-Base Voltage	V _{EBO}	6	V
Collector Current -Continuous	I _C	5	A
Collector Power dissipation	P _C	0.75	W
Storage Temperature	T _{stg}	-55to +150	°C

ELECTRICAL CHARACTERISTICS (@ Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{CB0}	I _C =1 mA, I _E =0	42			V
Collector-emitter breakdown voltage	V _{CEO}	I _C = 1 mA, I _B =0	22			V
Emitter-base breakdown voltage	V _{EBO}	I _E = 10 μA, I _C =0	6			V
Collector cut-off current	I _{CB0}	V _{CB} = 30 V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 6 V, I _C =0			0.1	μA
DC current gain	H _{FE (1)}	V _{CE} = 2 V, I _C = 0.15mA	150			
	H _{FE (2)}	V _{CE} =2V, I _C = 500 mA	340		950	
	H _{FE (3)}	V _{CE} = 2V, I _C = 2000mA	150			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =3000mA, I _B =100 mA			0.35	V

CLASSIFICATION OF h_{FE(1)}

Rank	R	T
Range	340-600	560-950

D965 Typical Characteristics

