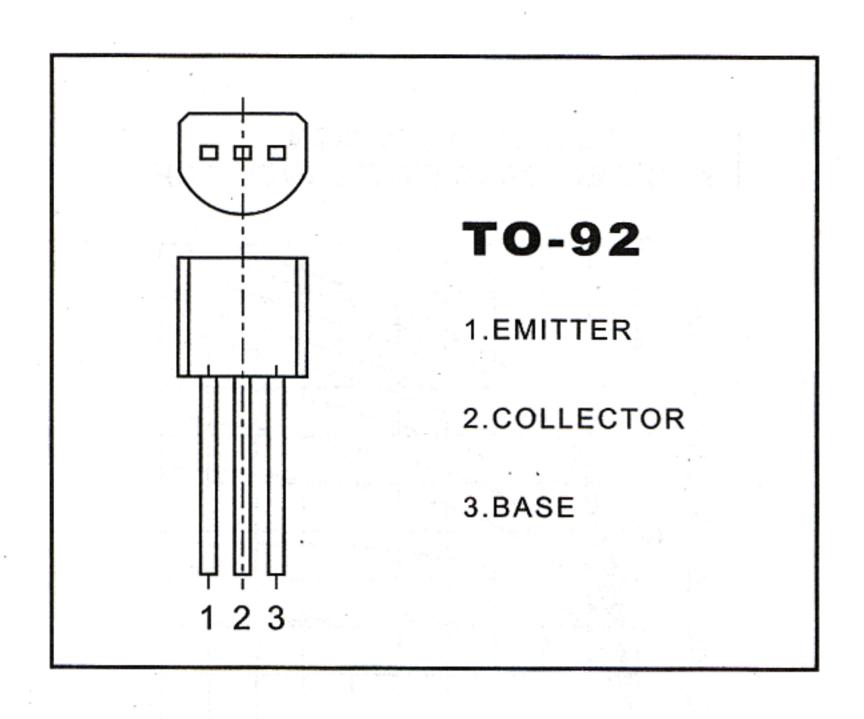
TO-92 Plastic-Encapsulate Transistors

C945 TRANSISTOR(NPN)



FEATURES

Power dissipation

Рсм: 0.4W (Tamb=25°С)

Collector current

Iсм: 0.15 A

Collector-base voltage

V(BR)CBO: 60 V

Operating and storage junction temperature range

T_J,T_{stg:} -55℃ to + 150℃

ELECTRICAL CHARACTERISTICS

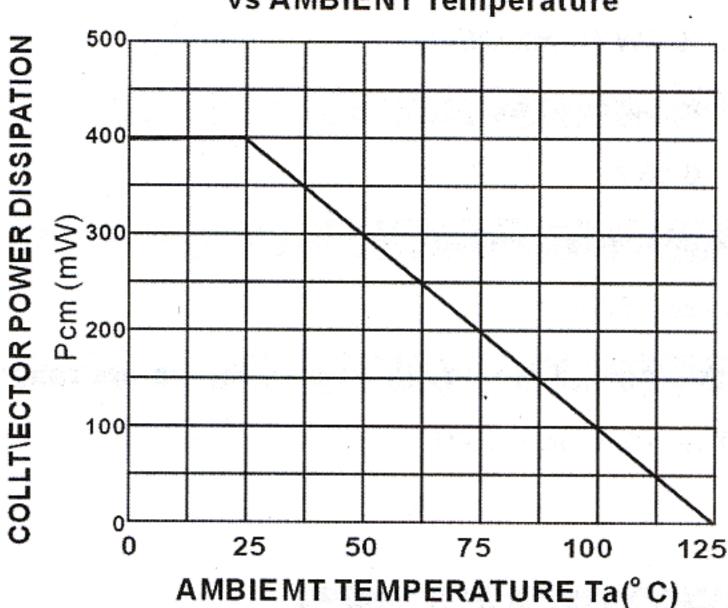
(Tamb=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V(BR)CBO	Ic= 1000 μ A, I _E =0	60		٧
Collector-emitter breakdown voltage	V(BR)CEO Ic= 0.1 mA, I _B =0		50		V
Emitter-base breakdown voltage	V(BR)EBO	I _E = 100 μ A, I _C =0	5		٧
Collector cut-off current	Ісво	V _{CB} = 60 V, I _E =0		0.1	μА
Collector cut-off current	ICER	Vcε= 55 V, R= 10 MΩ		0.1	μА
Emitter cut-off current	ІЕВО	V _{EB} = 5 V, I _C =0		0.1	. μ А
DC current gain	hFE(1)	VcE= 6 V, Ic= 1 mA	70	700	,
	hFE(2)	VcE= 6 V, Ic= 0.1 mA	40		
Collector-emitter saturation voltage	VCEsat	Ic= 100 mA, I _B = 10 mA		0.3	٧
Base-emitter saturation voltage	VBEsat	Ic= 100 mA, I _B = 10 mA		1	٧
Base-emitter voltage	VBE	I _E = 310mA		1.4	V
Transition frequency	fτ	VcE= 6 V, Ic= 10 mA 150 f = 30MHz			МН

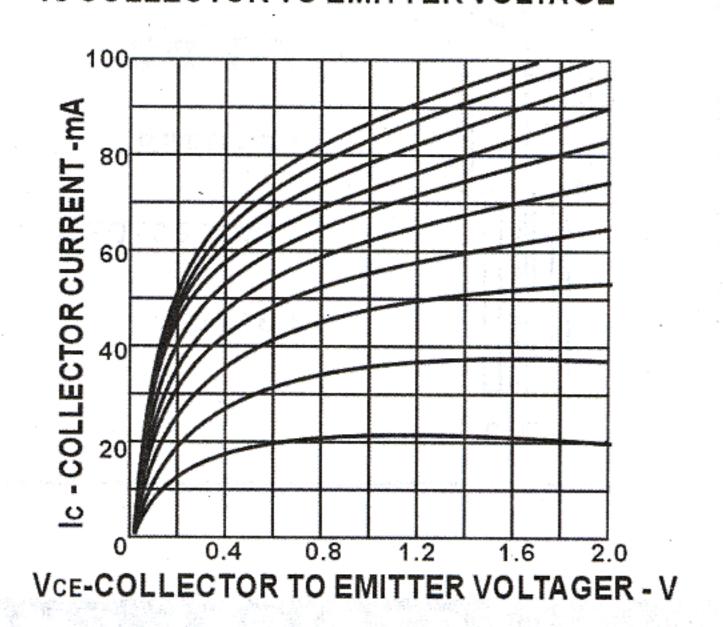
CLASSIFICATION OF hfe(1)

Rank	0	Υ	GR	BL
Range	70-140	120-240	200-400	350-700

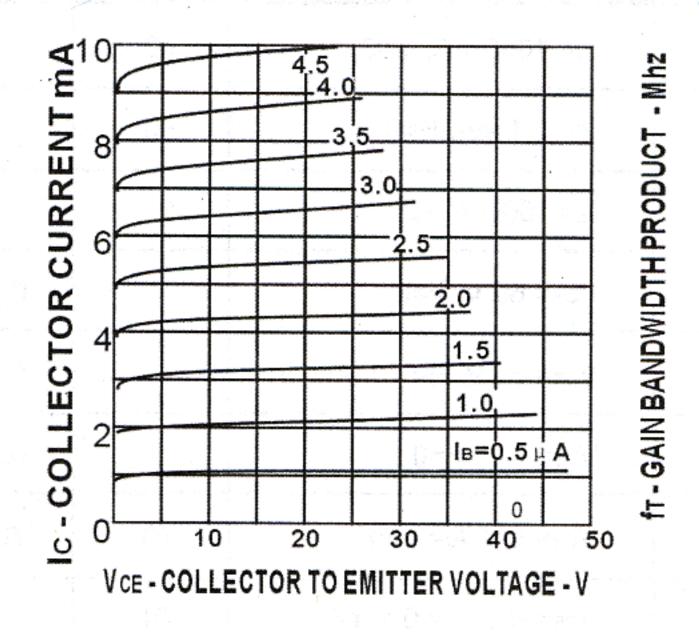
TOTAL Power Dissipation vs AMBIENT Temperature



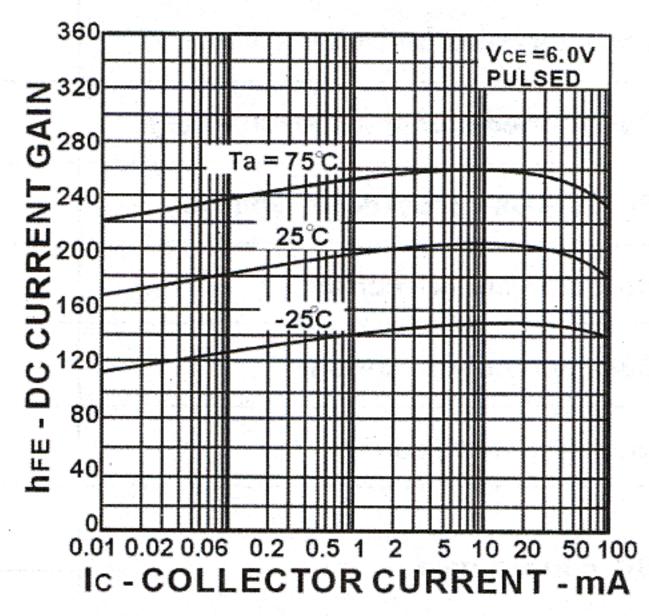
COLLECTOR CURRENT vs COLLECTOR TO EMITTER VOLTAGE



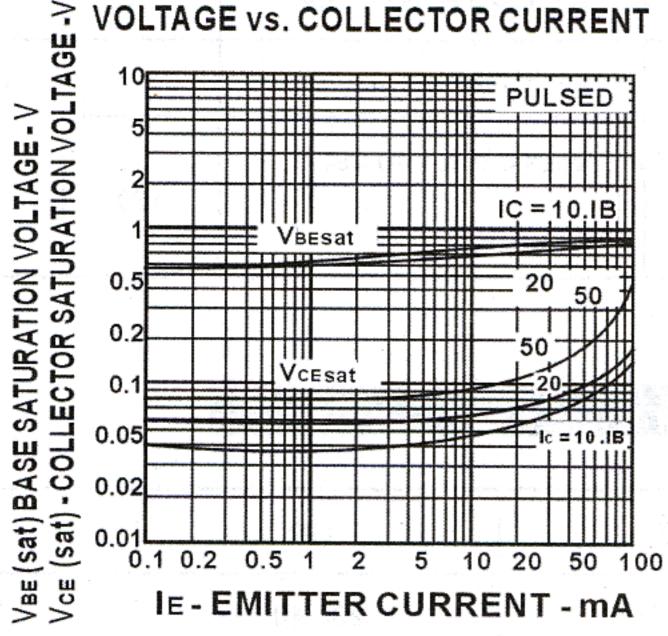
COLLECTOR CURRENT VS.COLLECTOR TO EMITTER VOLTAGE



DC CURRNT GAIN vs. COLLECTOR CURRENT



COLLECTOR AND BADE SATURATION



DC CURRENT GAIN vs.COLLECTOR CURRENT

