

SHENZHEN CITY KOO CHIN ELECTRONICS LIMITED

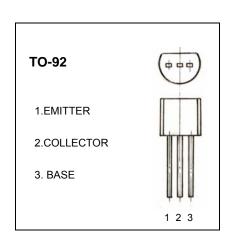
C945 TRANSISTOR (NPN)

FEATURE

- Excellent h_{FE} linearity
- Low noise
- Complementary to A733

MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	ollector-Emitter Voltage 50		
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current -Continuous	150	mA	
Pc	Collector Power Dissipation	400	mW	
TJ	Junction Temperature	125	℃	
T _{stg}	Storage Temperature	-55-125	°C	



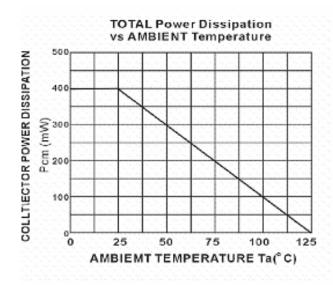
ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

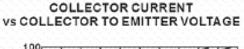
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =1mA , I _E =0	60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =100uA , I _B =0	50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100mA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =60V, I _E =0			0.1	uA
Collector cut-off current	I _{CEO}	V _{CE} =45V			0.1	uA
Emitter cut-off current	I _{EBO}	V _{EB} =5V , I _C =0			0.1	uA
DC current gain	h _{FE(1)}	V _{CE} =6 V , I _C =1mA	70		700	
DC current gain	h _{FE(2)}	V_{CE} =6 V , I_{C} =0.1mA	40			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =100mA, I _B =10mA			0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =100mA, I _B =10mA			1	V
Transition frequency	f _T	V _{CE} =6V,I _C =10mA,f =30 MHz	200			MHz
Collector output capacitance	Cob	V_{CB} =10 V , I_E =0, f =1 MH_Z			3.0	pF
Noise figure	NF	VCE=6V,Ic=0.1mA			10	dB
Noise figure		Rg=10kΩ,f=1kMHz				

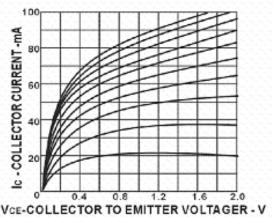
CLASSIFICATION OF h_{FE(1)}

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

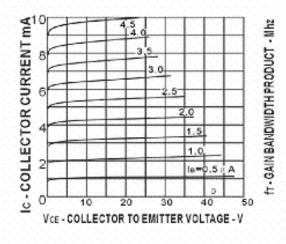
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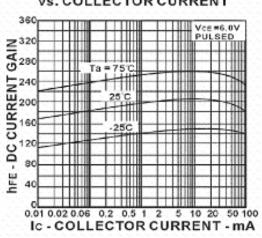




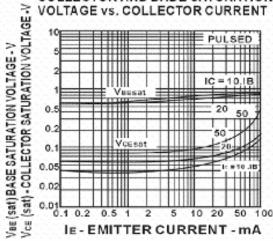




DC CURRNT GAIN vs. COLLECTOR CURRENT



COLLECTOR AND BADE SATURATION VOLTAGE vs. COLLECTOR CURRENT



DC CURRENT GAIN vs.COLLECTOR CURRENT

