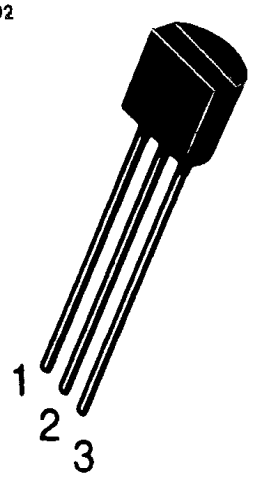
Transistors
2SC1187

USHA (INDIA) LTD

TV 1ST, 2ND PICTURE IF AMPLIFIER (FORWARD AGC)

- **High Current Gain Bandwidth Product f_T=700MHz**
- **High Power Gain Gpe=24dB (Typ) at 45MHz**

TO-92



1. Emitter 2. Base 3. Collecfor

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	20	V
Emitter-Base Voltage	V_{EBO}	4	V
Collector Current	I_C	30	mA
Collector Dissipation	P_C	250	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	−55~150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C)

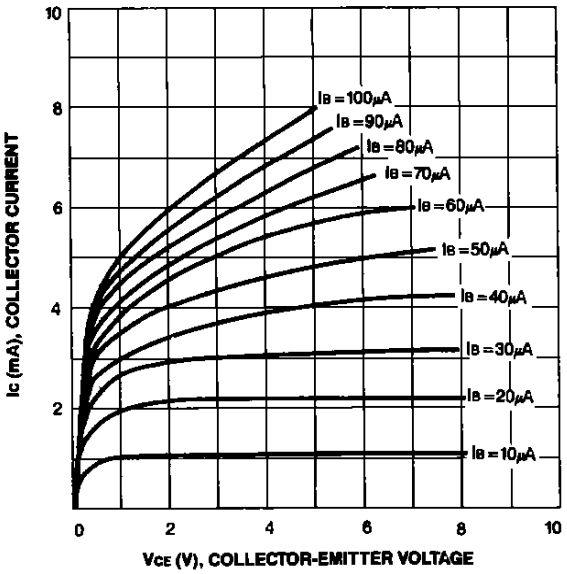
Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	I_C=10μA, I_E=0	30			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	I_C=5mA, I_B=0	20			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I_E=10μA, I_C=0	4			V
Collector Cut-off Current	I_{CBO}	V_{CB}=20V, I_E=0			0.1	μA
DC Current Gain	h_{FE}	V_{CE}=10V, I_C=2mA	40		240	
Current Gain-Bandwidth Product	f_T	V_{CE}=10V, I_C=3mA	400	700		MHz
Reverse Transfer Capacitance	C_{re}	V_{CB}=10V, I_E=0 f=1MHz		0.6		pF
Power Gain	Gpe	V_{CE}=10V, I_E=−3mA f=45MHz	20	24		dB
AGC Voltage	V_{AGC}	G_{PE}=−30dB f=45MHz	4.4	5.2	6.0	V

h_{FE} CLASSIFICATION

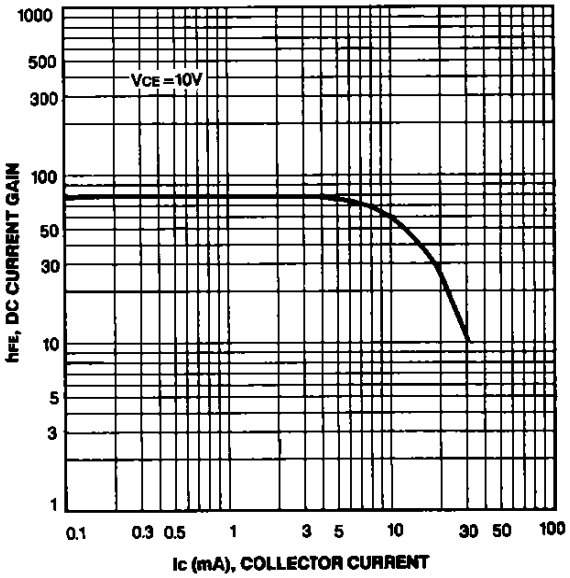
Classification	R	O	Y
h_{FE}	40-80	70-140	120-240

ISO 14001 CERTIFIED
AN ISO 9002 COMPANY

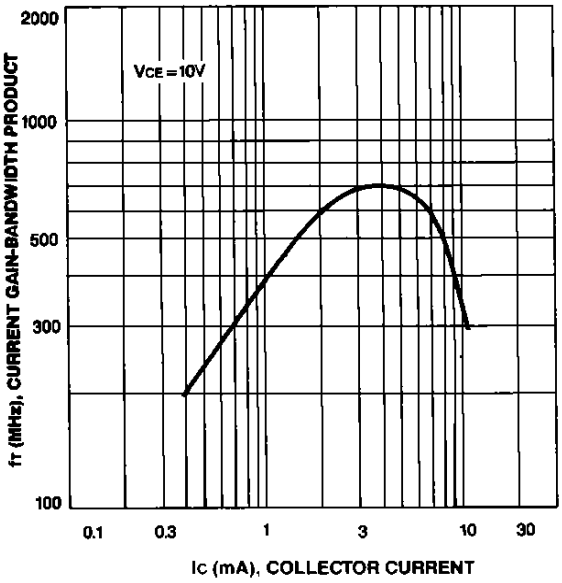
STATIC CHARACTERISTIC



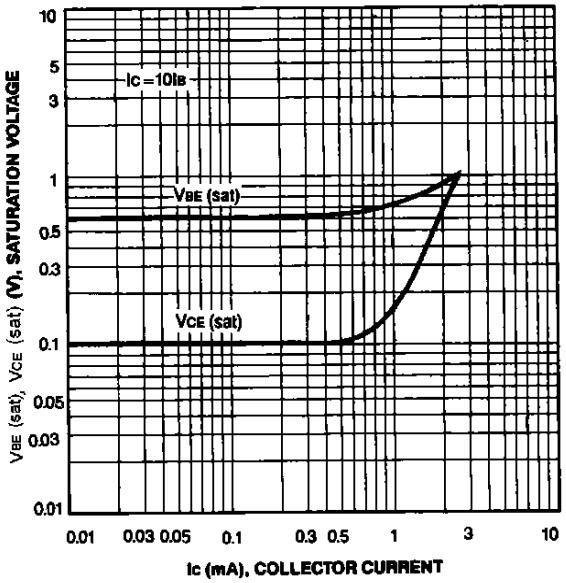
DC CURRENT GAIN



CURRENT GAIN-BANDWIDTH PRODUCT



BASE-EMITTER SATURATION VOLTAGE COLLECTOR-EMITTER SATURATION VOLTAGE



REVERSE CAPACITANCE