

TO-92 Plastic-Encapsulate Transistors

BF483/BF485/BF487 TRANSISTOR (NPN)

FEATURES

- Low Feedback Capacitance

APPLICATIONS

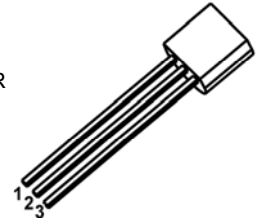
- Intended for Use in Video Output Stages in Black-and-white and in Colour Television Receivers.

MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	BF483	300
		BF485	350
		BF487	400
V_{CEO}	Collector-Emitter Voltage	BF483	250
		BF485	300
		BF487	350
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current	0.1	A
P_C	Collector Power Dissipation	830	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	150	$^{\circ}\text{C}/\text{W}$
T_j	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55~+150	$^{\circ}\text{C}$

TO - 92

- 1.EMITTER
- 2.COLLECTOR
- 3.BASE



ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu\text{A}, I_E=0$	BF483	300		V
			BF485	350		
			BF487	400		
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1\text{mA}, I_B=0$	BF483	250		V
			BF485	300		
			BF487	350		
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu\text{A}, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=300\text{V}, I_E=0$			20	nA
Emitter cut-off current	I_{EBO}	$V_{EB}=5\text{V}, I_C=0$			0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=20\text{V}, I_C=25\text{mA}$	50			
	$h_{FE(2)}$	$V_{CE}=20\text{V}, I_C=40\text{mA}$	20			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=30\text{mA}, I_B=5\text{mA}$			0.6	V
Transition frequency	f_T	$V_{CE}=10\text{V}, I_C=10\text{mA}, f=100\text{MHz}$	70			MHz
Collector output capacitance	C_{ob}	$V_{CB}=30\text{V}, I_E=0, f=1\text{MHz}$			1.4	pF