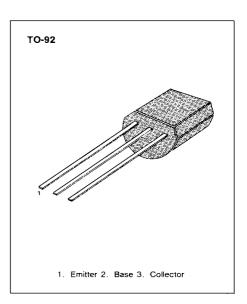


AMPLIFIER TRANSISTOR

Collector-Base Voltage: V_{CEO} = 120V
 Collector Dissipation: P_C (max)=625mW

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Rating	Unit	
Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current Collector Dissipation Junction Temperature Storage Temperature	V _{CBO} V _{CEO} V _{EBO} I _C P _C Tj Tstg	-130 -120 -5 -600 625 150 -55~150	∨ ∨ ∨ mA mW °C °C	



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Characterstic	Symbol	Test Condition	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =-100μA, I _E =0	-130			V
Collector-Emitter Breakdown Voltage	BVCEO	I _C =-1mA, I _B =0	-120			V
Emitter-Base Breakdown Voltage	BVEBO	$I_E = -10\mu A, I_C = 0$	-5			V
Collector Cut-off Current	Ісво	V _{CB} =-100V, I _E =0			-100	nΑ
Emitter Cut-off Current	I _{EBO}	$V_{EB} = -3V, I_{C} = 0$			-50	nA
*DC Current Gain	h _{FE}	$I_C = -1 \text{mA}, V_{CE} = -5 \text{V}$	30			
		I _C =-10mA, V _{CE} =-5V	40	İ	180	
		$I_{C} = -50 \text{mA}, V_{CE} = -5 \text{V}$	40			
*Collector-Emitter Saturation Voltage	V _{CE} (sat)	I _C =-10mA, I _B =-1mA			-0.2	V
		$I_C = -50 \text{mA}, I_B = -5 \text{mA}$			-0.5	V
*Base-Emitter Saturation Voltage	V _{BE} (sat)	$I_C = -10mA$, $I_B = -1mA$			-1	V
		I _C =-50mA, I _B =-5mA			-1	V
Current Gain Banwidth Product	f _T	I _C =-10mA, V _{CE} =-10V	100		400	MHz
		f=100MHz				
Output Capacitance	Cob	V _{CB} =-10V, I _E =0			6	pF
		f=1MHz				
Noise Figure	NF	I _C =-250µA, V _{CE} =-5V			8	dB
		R _S =1KΩ				
		f=10Hz to 15.7KHz				

^{*} Pulse Test: Pulse Width= 300μ s, Duty Cycle=2%

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