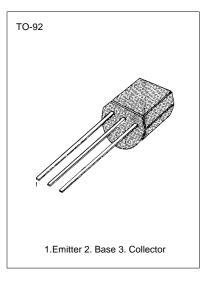
AMPLIFIER TRANSISTOR

- Collector-Emitter Voltage: V_{CEO}= 140V
 Collector Dissipation: P_C (max)=625mW

ABSOLUTE MAXIMUM RATINGS (T_A=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 T _J T _{STG}	160 140 6 600 625 150 -55 ~ 150	∨ ∨ ∨ mA mW °C °C

• Refer to 2N5551 for graphs



ELECTRICAL CHARACTERISTICS (T_A=25°C)

Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit	
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =100μA, I _E =0 I _C =1mA, I _B =0	160 140			V V	
* Collector-Emitter Breakdown Voltage Emitter-Base Breakdown Voltage	BV _{CEO} BV _{EBO}	$I_{E}=10\mu A, I_{C}=0$	6			V	
Collector Cut-off Current Emitter Cut-off Current * DC Current Gain	ICBO IEBO hee	$V_{CB}=100V, I_{C}=0$ $V_{EB}=4V, I_{C}=0$ $I_{C}=1mA, V_{CE}=5V$	60		100 50	nA nA	
		I_C =10mA, V_{CE} =5V I_C =50mA, V_{CE} =5V	60 20		250		
* Collector-Emitter Saturation Voltage	V _{CE} (sat)	I _C =10mA, I _B =1mA I _C =50mA, I _B =5mA	20		0.15	V	
* Base-Emitter Saturation Voltage	V _{BF} (on)	I _C =10mA, I _B =1mA			0.25 1	V	
Current Gain Bandwidth Product	f _T	I _C =50mA, I _B =5mA I _C =10mA, V _{CE} =10V	7 -	100		1.2 300	V MHz
Output Capacitance	Сов	V _{CB} =10V, I _E =0			6	pF	
Noise Figure	NF	f=1MHz I_c =250 μ A, V_{CE} =5 V R_S =1K Ω f=10Hz to 15.7KHz			10	dB	

^{*} Pulse Test: Pulse Width≤300μs, Duty Cycle≤2%



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