Transistors USP8099

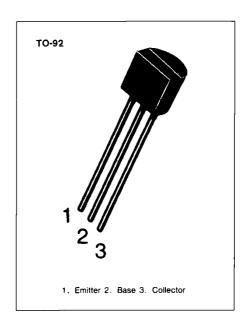


AMPLIFIER TRANSISTOR

• Collector Dissipation: Pc (max)=625mW

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}		
Collector-Emitter Voltage	V _{CEO}	80	V
Emitter-Base Voltage Collector Current Collector Dissipation Junction Temperature Storage Temperature	VEBO IC PC TJ TSTG	80 6 500 625 150 -55~150	V V mA mW °C °C



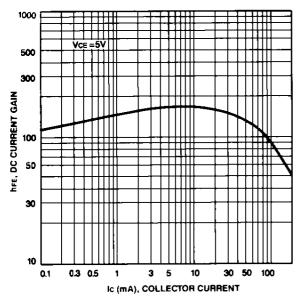
ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Test Conditions	Min	Max	Unit
BV _{CBO}	I _C =100μA, I _E =0			
BV _{CEO}	I _C =10mA, I _B =0	80		V
BV _{EBO}	I _E =10μΑ, I _C =0	80 6		v v
ICEO IEBO hre	V _{CB} =80V, I _E =0 V _{CE} =60V, I _B =0 V _{EB} =6V, I _C =0 V _{CE} =5V, I _C =1mA V _{CE} =5V, I _C =10mA V _{CE} =5V, I _C =100mA	100 100 75	100 100 100 300	nA nA nA
V _{CE} (sat)	I _C =100mA, I _B =5mA I _C =100mA, I _B =10mA		0.4	V
f _T	V _{CE} =5V, I _C =10mA V _{CE} =5V, I _C =10mA f=100MHz V _{CB} =5V, I _E =0	0.6 150	0.8	V MHz pF
	BVCBO BVCBO BVEBO ICBO ICEO IEBO hFE VCE (sat) VBE (on)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	BV _{CBO}	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

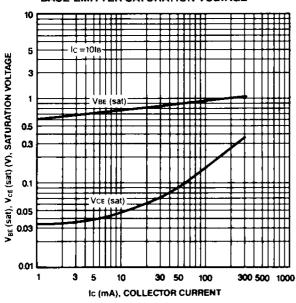
^{*}Pulse Test: PW=300µs, Duty Cycle=2%



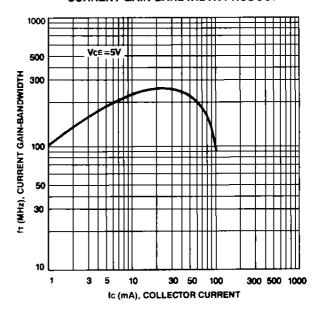
DC CURRENT GAIN



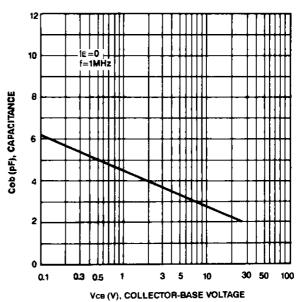
COLLECTOR-EMITTER SATURATION VOLTAGE BASE-EMITTER SATURATION VOLTAGE



CURRENT GAIN-BANDWIDTH PRODUCT



OUTPUT CAPACITANCE



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