imall

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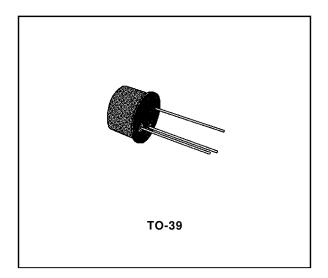


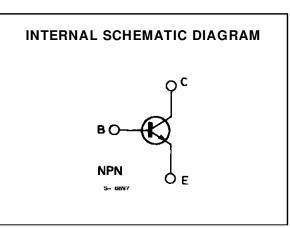
BF257 BF258-BF259

HIGH VOLTAGE VIDEO AMPLIFIERS

DESCRIPTION

The BF257, BF258 and BF259 are silicon planar epitaxial NPN transistors in Jedec TO-39 metal case. They are particularly designed for video output stages in CTV and MTV sets, class A audio output stages and drivers for horizontal deflection circuits.





Symbol	Parameter	Value			Unit
Symbol	i urumeter		BF258	BF259	oint
V _{CBO}	Collector-base Voltage $(I_E = 0)$	160	250	300	V
V _{CEO}	Collector-emitter Voltage (I _B = 0)	160	250	300	V
V _{EBO}	Emitter-base Voltage $(I_{C} = 0)$	5		V	
Ιc	Collector Current	100		mA	
I _{CM}	Collector Peak Current	200		mA	
Ptot	Total Power Dissipation at $T_{amb} \le 50 \ ^{\circ}C$	5		W	
Tstg	Storage Temperature	– 55 to 200		С°	
Тj	Junction Temperature	200		°C	

ABSOLUTE MAXIMUM RATINGS

THERMAL DATA

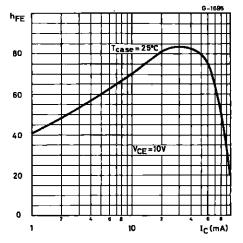
ſ	R _{th j-case}	Thermal Resistance Junction-case	Max	30	°C/W
	R _{th j-amb}	Thermal Resistance Junction-ambient	Max	175	°C/W

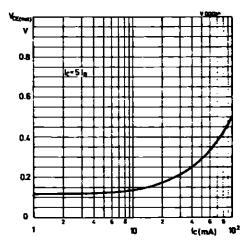
ELECTRICAL CHARACTERISTICS (T_{amb} = 25 °C unless otherwise specified)

Symbol	Parameter	Test C	Min.	Тур.	Max.	Unit	
I _{CBO}	Collector Cutoff Current $(I_E = 0)$	for BF257 for BF258 for BF259	$V_{CB} = 100 V$ $V_{CB} = 200 V$ $V_{CB} = 250 V$			50 50 50	nA nA nA
V _(BR) CBO	Collector-base Breakdown Voltage (I _E = 0)	I _C = 100 μA	for BF257 for BF258 for BF259	160 250 300			V V V
V _{(BR)CEO} *	Collector-emitter Breakdown Voltage $(I_B = 0)$	I _C = 10 mA	for BF257 for BF258 for BF259	160 250 300			V V V
V _{(BR) EBO}	Emittter-base Breakdown Voltage (I _C = 0)	I _E = 100 μA		5			V
V _{CE (sat)} *	Collector-emitter Saturation Voltage	I _C = 30 mA	$I_B = 6 \text{ mA}$			1	V
h _{FE} *	DC Current Gain	I _C = 30 mA	$V_{CE} = 10 V$	25			
f _T	Transition Frequency	I _C = 15 mA	$V_{CE} = 10 V$		90		MHz
C _{re}	Reverse Capacitance	$I_{\rm C} = 0$ f = 1 MHz	V _{CE} = 30 V		3		pF

* Pulsed : pulse duration = 300 $\mu s,$ duty cycle = 1 %.

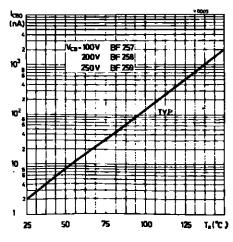
DC Current Gain.



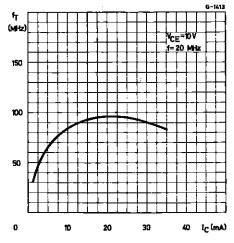




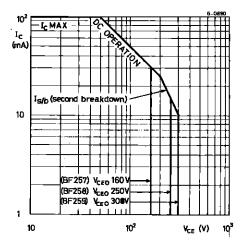
Collector Cutoff Current.



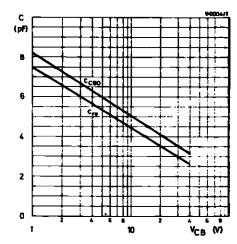
Transition Frequency.



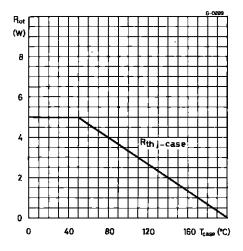
Safe Operating Area.



Collector-base Capacitance.



Power Rating Chart.

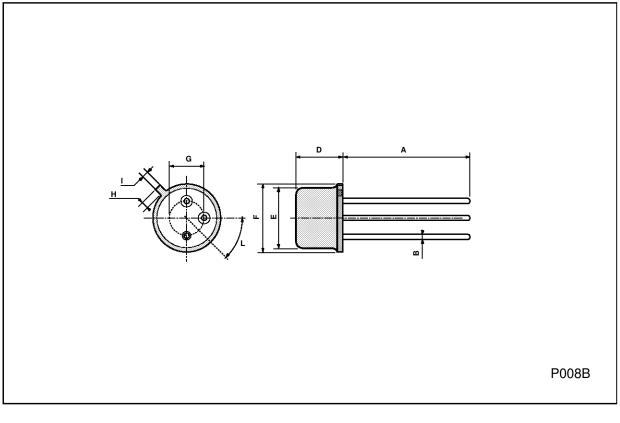




BF257-BF258-BF259

TO39 MECHANICAL DATA

DIM.	mm			inch			
	MIN.	ТҮР.	MAX.	MIN.	ТҮР.	MAX.	
А	12.7			0.500			
В			0.49			0.019	
D			6.6			0.260	
E			8.5			0.334	
F			9.4			0.370	
G	5.08			0.200			
н			1.2			0.047	
I			0.9			0.035	
L	45° (typ.)						



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