



BF 391 · BF 392 · BF 393

NPN HIGH VOLTAGE VIDEO AMPLIFIERS



THE BF391, BF392, BF393 ARE NPN SILICON PLANAR TRANSISTORS DESIGNED FOR HIGH VOLTAGE VIDEO AMPLIFIERS IN TELEVISION RECEIVERS. THEY FEATURE 200V MINIMUM COLLECTOR-EMITTER BREAKDOWN VOLTAGE AND GOOD FREQUENCY CHARACTERISTICS.

CASE TO-92A



ABSOLUTE MAXIMUM RATINGS

		BF391	BF392	BF393
Collector-Base Voltage	V _{CB0}	200V	250V	300V
Collector-Emitter Voltage	V _{CE0}	200V	250V	300V
Emitter-Base Voltage	V _{EB0}		6V	
Collector Current	I _{CM}		500mA	
Total Power Dissipation @ T _C ≤ 25°C	P _{tot}		1.5W	
	@ T _A ≤ 25°C		625mW	
Operating Junction & Storage Temperature	T _j & T _{stg}		-55 to 150°C	

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	BF391		BF392		BF393		UNIT	TEST CONDITIONS
		MIN	MAX	MIN	MAX	MIN	MAX		
Collector-Base Breakdown Voltage	V _{CB0}	200		250		300		V	I _C =0.1mA I _E =0
Collector-Emitter Breakdown Voltage	V _{CE0}	200		250		300		V	I _C =1mA I _B =0
Emitter-Base Breakdown Voltage	V _{EB0}	6		6		6		V	I _E =0.1mA I _C =0
Collector Cutoff Current	I _{CB0}	0.1						μA	V _{CB} =160V I _E =0
				0.1		0.1		μA	V _{CB} =200V I _E =0
Emitter Cutoff Current	I _{EB0}	0.1						μA	V _{EB} =4V I _C =0
				0.1		0.1		μA	V _{EB} =6V I _C =0
Collector-Emitter Saturation Voltage	V _{CE(sat)}	2		2		2		V	I _C =20mA I _B =2mA
Base-Emitter Saturation Voltage	V _{BE(sat)}	2		2		2		V	I _C =20mA I _B =2mA
D.C. Current Gain	h _{FE}	25		25		25			I _C =1mA V _{CE} =10V
		40		40		40			I _C =10mA V _{CE} =10V
Current Gain-Bandwidth Product	f _T	50		50		50		MHz	I _C =10mA V _{CE} =20V
Feedback Capacitance	C _{re}	2		2		2		pF	V _{CB} =60V I _E =0 f=1MHz

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