



# BF 391 · BF 392 · BF 393

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NPN HIGH VOLTAGE VIDEO AMPLIFIERS

## MICRO ELECTRONICS

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

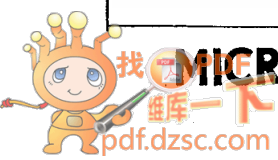


### ABSOLUTE MAXIMUM RATINGS

		BF391	BF392	BF393
Collector-Base Voltage	V <sub>CB0</sub>	200V	250V	300V
Collector-Emitter Voltage	V <sub>CEO</sub>	200V	250V	300V
Emitter-Base Voltage	V <sub>EBO</sub>		6V	
Collector Current	I <sub>CM</sub>		500mA	
Total Power Dissipation @ T <sub>C</sub> ≤ 25°C	P <sub>tot</sub>		1.5W	
	@ T <sub>A</sub> ≤ 25°C		625mW	
Operating Junction & Storage Temperature	T <sub>j</sub> & T <sub>stg</sub>	-55 to 150°C		

### ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	BF391 MIN MAX	BF392 MIN MAX	BF393 MIN MAX	UNIT	TEST CONDITIONS
Collector-Base Breakdown Voltage	BV <sub>CB0</sub>	200	250	300	V	I <sub>C</sub> =0.1mA I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	LV <sub>CEO</sub>	200	250	300	V	I <sub>C</sub> =1mA I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	6	6	6	V	I <sub>E</sub> =0.1mA I <sub>C</sub> =0
Collector Cutoff Current	I <sub>CB0</sub>	0.1			μA	V <sub>CB</sub> =160V I <sub>E</sub> =0
			0.1	0.1	μA	V <sub>CB</sub> =200V I <sub>E</sub> =0
Emitter Cutoff Current	I <sub>EBO</sub>	0.1			μA	V <sub>EB</sub> =4V I <sub>C</sub> =0
			0.1	0.1	μA	V <sub>EB</sub> =6V I <sub>C</sub> =0
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	2	2	2	V	I <sub>C</sub> =20mA I <sub>B</sub> =2mA
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>	2	2	2	V	I <sub>C</sub> =20mA I <sub>B</sub> =2mA
D.C. Current Gain	h <sub>FE</sub>	25	25	25		I <sub>C</sub> =1mA V <sub>CE</sub> =10V
		40	40	40		I <sub>C</sub> =10mA V <sub>CE</sub> =10V
Current Gain-Bandwidth Product	f <sub>T</sub>	50	50	50	MHz	I <sub>C</sub> =10mA V <sub>CE</sub> =20V
Feedback Capacitance	C <sub>re</sub>	2	2	2	pF	V <sub>CB</sub> =60V I <sub>E</sub> =0 f=1MHz



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