



BF 391 · BF 392 · BF 393

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 _{CBO}	200V	250V	300V
Collector-Emitter Voltage	V _{CEO}	200V	250V	300V
Emitter-Base Voltage	V _{EBO}		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	

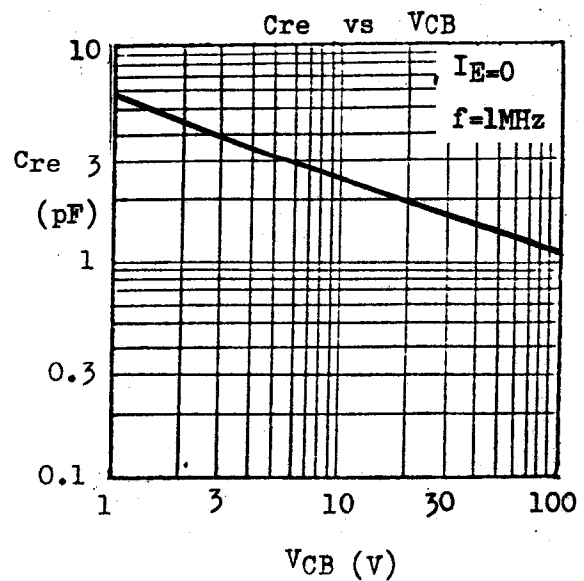
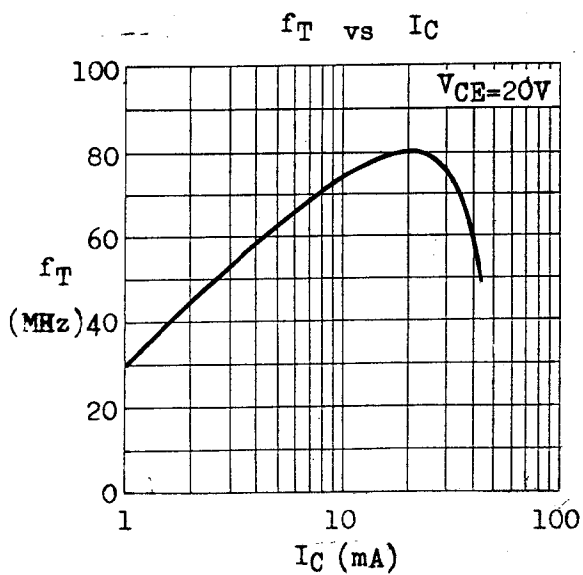
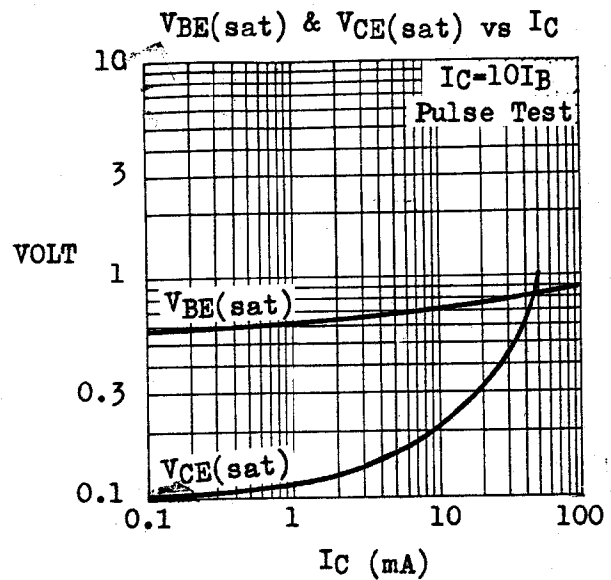
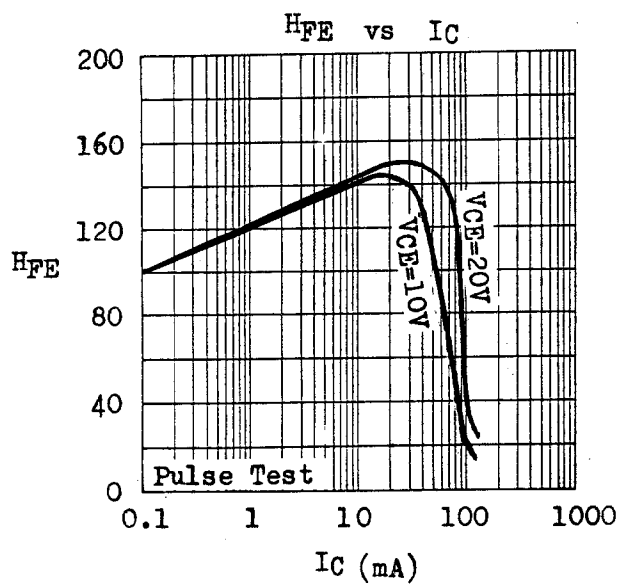
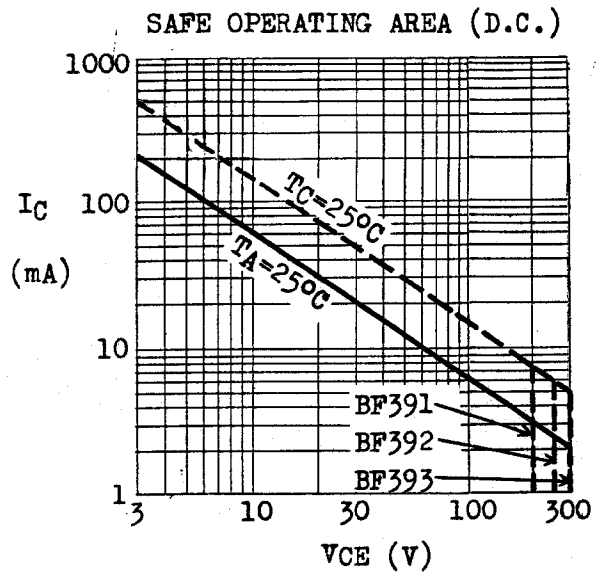
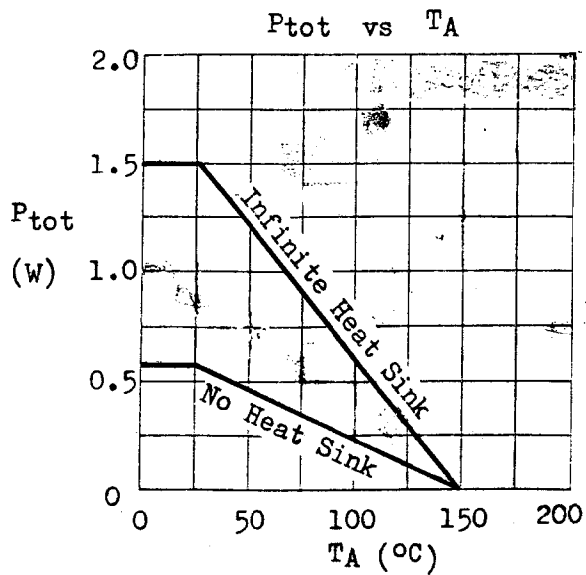
ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	BF391 MIN MAX	BF392 MIN MAX	BF393 MIN MAX	UNIT	TEST CONDITIONS
Collector-Base Breakdown Voltage	BV _{CBO}	200	250	300	V	I _C =0.1mA I _E =0
Collector-Emitter Breakdown Voltage	LV _{CEO}	200	250	300	V	I _C =1mA I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	6	6	6	V	I _E =0.1mA I _C =0
Collector Cutoff Current	I _{CBO}	0.1			μA	V _{CB} =160V I _E =0
			0.1	0.1	μA	V _{CB} =200V I _E =0
Emitter Cutoff Current	I _{EBO}	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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Datasheets for electronics components.