BF491, BF492, BF493 are PNP silicon planar transistors designed for high voltage video amplifiers in television receivers requiring high breakdown voltage and low capacitance.



EBC

ABSOLUTE MAXIMUM RATINGS		BF491	BF492	BF493
Collector-Emitter Voltage	VCEO	200V	250V	300V
Collector-Base Voltage	V _{CBO}	200V	250V	300V
Emitter-Base Voltage	V _{EBO}	6V	8V	8V
Collector Current	\mathbf{I}_{C}		500mA	
Total Device Dissipation @ T _A =25 ^o C	P_D		625mW	
Derate Above 25°C		1.	$2mW/^{\circ}C$	
Total Device Dissipation @ T _C =25 ^o C	^{P}D		1.5W	
Derate Above 25°C			2mW/°C	
Operating & Storage Junction Temperature Range	Tj,Tstg	-55 to	150°C	

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

PARAMETER	SYMBOL	BF491 MIN MAX	BF492 MIN MAX	BF493 MIN MAX	TINU	TEST CONDITION
Collector-Base Breakdown Voltage	BVCBO	200	250	300 ⁽	٧	IC=0.lmA IE=0
Collector-Emitter Breakdown Voltage	BVCEO *	200	250	300	٧	IC=lmA IB=C
Emitter-Base Breakdown Voltage	BVEBO	6	8	8	A.	IE=0.1mA IC=C
Collector Cutoff Current	ICBO	0.1			בע.	VCB-160V_IE-C
			0.1	0.1	μA	VCB-200V IE-C
Emitter Cutoff Current	I _{EBO}	0.1			'אַע	VED=4V IC=C
			0.1	0.1	Αu	VEB-6V IC=C
Collector-Emitter Saturation Voltage	VCE(sat)	2	2	2	v	IC=20mA IB=2m
Base-Emitter Saturation Voltage	VBE(sat)	2	2	2	V	IC=20mA IB=2r
D.C. Current Gain	HPE	25	25	25		IC=lmA VCE=1
		40	40	40		IC=10mA VCE=10
Current Gain-Bandwidth Product	fy	50	50	-50	MHz	IG-10mA VCE-2
Feedback Capacitance	Cre ,	2	2	2	pF	VCB=100V IE=0 f=1MHz

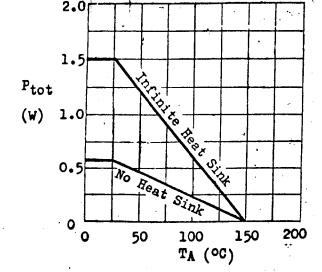
^{*}Pulse Test : Pulse Width≤300μS, Duty Cycle≤2%.

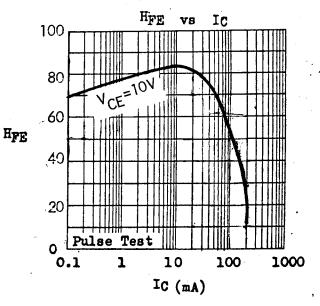


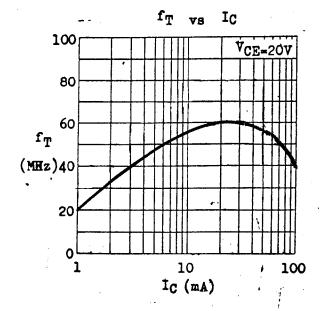
MICRO ELECTRONICS LTD. 美科有限公司

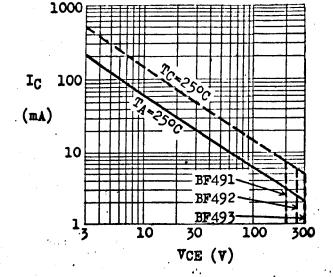
38 Hung To Road, Kwun Tong, Kowloon, Hong Kong. Cable: Microtron, Hong Kong. Telex: 43510 Micro HX.

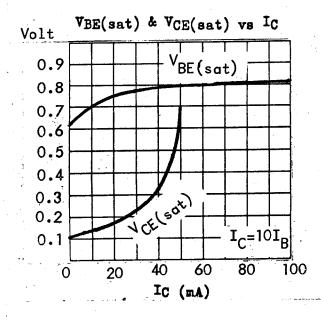
P.O. Box69477, Kwun Tong. Tel: 3-430181-6 3-893363, 3-892423, 3-898221 FAX: 3-410321











2 - 2 , BMP