

NPN SILICON PLANAR EPITAXIAL RF TRANSISTORS

BF495

BF494

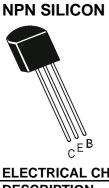
TO-92 Plastic Package

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High Voltage Video Transistors

ABSOLUTE MAXIMUM RATINGS(Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	•	Value		UNITS
Collector Emitter Voltage	V _{CEO}		20		V
Collector Base Voltage	V _{CBO}		30		V
Emitter Base Voltage	V_{EBO}		5		V
Collector Current (DC)	I _C		30		mA
Collector Current(peak value)	I _{CM}		30		mA
Total Power dissipation up to	P _{tot}		300		mW
Tamb = 25°C					mW/⁰C
Operating And Storage Junction	T _j , T _{stg}		-55 to +150		°C
Temperature Range					
THERMAL RESISTANCE	Р		100		
Junction to ambient	R _{th(j-a)}		420		K/W
ELECTRICAL CHARACTERISTICS (T	a=25⁰C Unle	ess Otherwise Specifi	ied)		
DESCRIPTION	SYMBOL		Min	Max	UNITS
Collector Cut- off Current	I _{CBO}	V _{CB} =20V,I _E =0		500	nA
Collector Cut - off Current	I _{CBO}	V _{CB} =20V,I _E =0			
		Ta =150 ⁰C		4.0	μA
EmitterCut off Current	I_{EBO}	V_{EB} =4V, I_{C} =0		500	nA
Base Emitter Voltage	V _{BE(ON)}	V _{CE} =10V,I _C =1mA	0.65	0.74	V
DC Current Gain	. ,				
BF49	4 h _{FE ∗}	I _C =1mA,V _{CE} =10V	67	221	
BF494/	4		200	500	
BF494I			110	215	
BF 49	-		35	125	
BF 4950			65	135	
BF 495I	J		40	85	



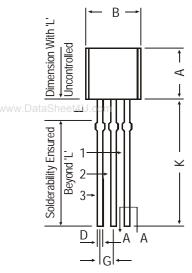
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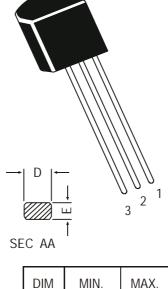
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DESCRIPTION	SYMBOL	TEST CONDITION	Min	Max	UNITS
DYNAMIC CHARACTERISTICS					
Transition Frequency	f _T	$I_C=1mA$, $V_{CE}=10V$	120		MHz
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Feedback Capacitance	C _{re}	V _{CE} =10V, I _C =1mA		1.0	pF
		f=4.5MHz			

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4.32

4.45

3.18

0.41

0.35

1.14

5 DEG

5.33

5.20

4.19

0.55

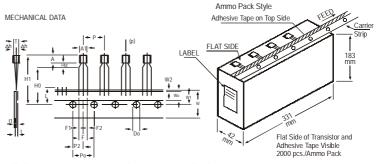
0.50

1.40

1.53

2.082





All dimensions in mm unless specified otherwise

ITEM		SPECIFICATION			N	DEMARKA	
ITEM	SYMBOL	MIN.	NOM.	MAX.	TOL .	REMARKS	
BODY WIDTH	A1	4.0		4.8			
BODY HEIGHT BODY THICKNESS	A T	4.8 3.9		5.2 4.2			
PITCH OF COMPONENT	P	3.9	12.7	4.2	+1		
FEED HOLE PITCH	Po		12.7		±0.3	CUMULATIVE PITCH ERROR 1.0 mm/20	
FEED HOLE CENTRE TO COMPONENT CENTRE	P2		6.35		±0.4	PITCH TO BE MEASURED AT BOTTOM OF CLINCH	
DISTANCE BETWEEN OUTER LEADS	F		5.08		+0.6 -0.2		
COMPONENT ALIGNMENT TAPF WIDTH	∆h W		0 18	1	+0.5	AT TOP OF BODY	
HOLD-DOWN TAPE WIDTH	Wo		6		±0.3 ±0.2		
HOLE POSITION	W1		9		+0.7 -0.5		
HOLD-DOWN TAPE POSITION	W2		0.5		±0.2		
LEAD WIRE CLINCH HEIGHT COMPONENT HEIGHT	Ho H1		16	23.25	±0.5		
LENGTH OF SNIPPED LEADS				23.25			
FEED HOLE DIAMETER	Do		4		±0.2		
TOTAL TAPE THICKNESS	t		0.54	1.2		t1 0.3 - 0.6	
LEAD - TO - LEAD DISTANCEF1,	F2		2.54		+0.4		
CLINCH HEIGHT	H2			3	0.1		
PULL - OUT FORCE	(P)	6N					

Н 1.14 Κ 12.70

А

В

С

D

Ε

F

G

L

2. EMITTER 3. COLLECTOR

1. BASE

PIN CONFIGURATION

All diminsions in mm.

1.982

 MOTES

 1. MAXIMUM ALIGNMENT DEVIATION BETWEEN LEADS NOT TO BE GREATER THAN 0.2 mm.

 2. MAXIMUM NON-CUMULATIVE VARIATION BETWEEN TAPE FEED HOLES SHALL NOT EXCEED 1 mm IN 20

3

HOLDDOWN TAPE NOT TO EXCEED BEYOND THE EDGE(S) OF CARRIER TAPE AND THERE SHALL BE NO NO MORE THAN 3 CONSECUTIVE MISSING COMPONENTS ARE PERMITTED. A TAPE TRAILER, HAVING AT LEAST THREE FEED HOLES ARE REQUIRED AFTER THE LAST COMPONENT.

4

5. 6. SPLICES SHALL NOT INTERFERE WITH THE SPROCKET FEED HOLES.

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-92 Bulk	1K/polybag	200 gm/1K pcs	3" x 7.5" x 7.5"	5K	17" x 15" x 13.5"	80K	23 kgs
TO-92 T&A	2K/ammo box	645 gm/2K pcs	12.5" x 8" x 1.8"	2K	17" x 15" x 13.5"	32K	12.5 kgs

Notes

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Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD is believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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