

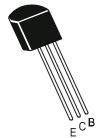
Continental Device India Limited

An ISO/TS16949 and ISO 9001 Certified Company



PNP SILICON PLANAR EPITAXIAL HIGH VOLTAGE VIDEO TRANSISTORS

BF421 BF423



TO-92 Plastic Package

High Voltage Video Amplifier

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

DESCRIPTION	SYMBOL	423	421	UNITS
Collector Emitter Voltage	V_{CEO}	250	300	V
Collector Base Voltage	V_{CBO}	250	300	V
Emitter Base Voltage	V_{EBO}	5	;	V
Collector Current Continuous	I _C	50	00	mA
Power Dissipation@ Ta=25°C	P_{D}	80	00	mW
Derate Above 25°C		6.	4	mW/ºC
Power Dissipation@ Tc=25°C	P_{D}	2.7	75	W
Derate Above 25°C		22	2	mW/ºC
Operating And Storage Junction	T_{j},T_{stg}	-55 to	+150	٥C
Temperature Range				
THERMAL RESISTANCE				
Junction to ambient	$R_{th(j-a)}$	15	66	°C/W
Junction to case	$R_{th(j-c)}$	4:	5	°C/W

ELECTRICAL CHARACTERISTICS (Ta=25°C Unless Otherwise Specified)

DESCRIPTION	SYMBOL	TEST CONDITION	423	421	UNITS
Collector Emitter Voltage*	V_{CEO}	$I_C=1.0$ mA, $I_B=0$	>250	>300	V
Collector Base Voltage	V_{CBO}	$I_{C}=100\mu A.I_{E}=0$	>250	>300	V
EmitterBase Voltage	V_{EBO}	$I_E = 100 \mu A, I_C = 0$	>5	>5	V
Collector-Cut off Current	I_{CBO}	V_{CB} =200 V , I_E =0	<10	<10	nA
Emitter-Cut off Current	I_{EBO}	V_{EB} =5.0V, I_{C} =0	<100	<100	nA
DC Current Gain	h_{FE}	$I_C=25$ mA, $V_{CE}=20$ V	>50	>50	
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=20mA,I_B=2mA$	<0.5	<0.5	V
Base Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=20mA, I_B=2mA$	<2	<2	V

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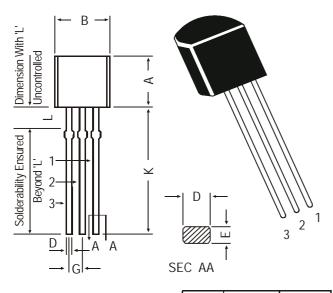
ELECTRICAL CHARACTERISTICS (Ta=25°C Unless Specified Otherwise)

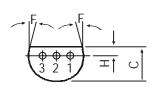
DESCRIPTION	SYMBOL	TEST CONDITION	423	421	UNITS
DYNAMIC CHARACTERISTICS					
Current Gain-Bandwidth Product	f _T	I _C =10mA, V _{CE} =10V f=50MHz	>60	>60	MHz
Feedback Capacitance	C_{re}	V_{CB} =30V, I_E =0 f=1MHz	<2.8	<2.8	pF

TO-92 Plastic Package

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TO-92 Transistors on Tape and Ammo Pack



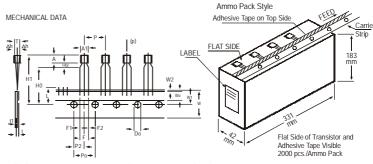


PIN CONFIGURATION

- 1. BASE
- 2. COLLECTOR
- 3. EMITTER

DIM	MIN.	MAX.				
Α	4.32	5.33				
В	4.45	5.20				
С	3.18	4.19				
D	0.41	0.55				
Е	0.35	0.50				
F	5 DEG					
G	1.14	1.40				
Н	1.14	1.53				
K	12.70	_				
L	1.982	2.082				

All diminsions in mm.



All dimensions in mm unless specified otherwise

ITEM		SPECIFICATION			N	
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	0.7	12.7		±1	
FEED HOLE PITCH	Po		12.7		±0.3	CUMULATIVE PITCH ERROR 1.0 mm/20 PITCH
FEED HOLE CENTRE TO COMPONENT CENTRE	P2		6.35		±0.4	TO BE MEASURED AT BOTTOM OF CLINCH
DISTANCE BETWEEN OUTER LEADS	F		5.08		+0.6	
COMPONENT ALIGNMENT	∆h		0	1	-0.2	AT TOP OF BODY
TAPE WIDTH	W		18		±0.5	
HOLD-DOWN TAPE WIDTH HOLF POSITION	Wo W1		6 9		±0.2 +0.7	
HOLL FOSITION	VVI		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	П			11.0		
FEED HOLE DIAMETER	Do		4		±0.2	
TOTAL TAPE THICKNESS	t F2		2 5 4	1.2	.04	t1 0.3 - 0.6
LEAD - TO - LEAD DISTANCEF1,	F2		2.54		+0.4 -0.1	
CLINCH HEIGHT	H2			3		
PULL - OUT FORCE	(P)	6N				

- NOTES

 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 HOLDDOWN TAPE NOT TO EXCEED BEYOND THE EDGE(S) OF CARRIER TAPE AND THERE SHALL BE NO EXPOSURE OF ADHESIVE.

 NO MORE THAN 3 CONSECUTIVE MISSING COMPONENTS ARE PERMITTED.

 A TAPE TRAILER, HAVING AT LEAST THREE FEED HOLES ARE REQUIRED AFTER THE LAST COMPONENT. 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 BF421 BF423

> TO-92 Plastic Package

Disclaimer

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