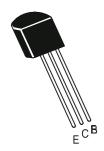


NPN SILICON PLANAR EPITAXIAL TRANSISTOR

CSC388ATM

TO - 92 Plastic Package



TV Final Picture IF Amplifier Applications

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector Base Voltage	V_{CBO}	30	V
Collector Emitter Voltage	V_{CEO}	25	V
Emitter Base Voltage	V_{EBO}	4	V
Collector Current	I _C	50	mA
Emitter Current	Ι _Ε	- 50	mA
Collector Power Dissipation	P_{C}	300	mW
Operating And Storage Junction Temperature Range	T_j , T_{stg}	-55 to +125	°C

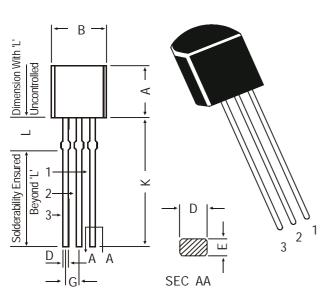
ELECTRICAL CHARACTERISTICS (Ta=25°C unless specified otherwise)

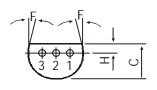
DESCRIPTION	SYMBOL	SYMBOL TEST CONDITION		TYP	MAX	UNIT
Collector Cut off Current	I _{CBO}	$V_{CB} = 30V, I_F = 0$	_	_	100	nA
Emitter Cut off Current		$V_{EB}=3$, $I_{C}=0$	_	-	1.0	
	I _{EBO}	25 . 0	-		_	μΑ
Collector Emitter Voltage	V_{CEO}	I _C =10mA, I _B =0	25	-	-	V
DC Current Gain	h_{FE}	V_{CE} =12.5V, I_{C} =12.5mA	20	-	200	
Collector Emitter Saturation	$V_{CE(sat)}$	$I_C=15mA$, $I_B=1.5mA$	-	-	0.2	V
Voltage						
Base Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=15mA$, $I_B=1.5mA$	-	-	1.5	V
Collector Output Capacitance	C_ob	V_{CB} =10V, I_{E} =0, f =1MHz	0.8	-	2.0	pF
Collector- Base Time Constant	C_c .rbb'	V_{CB} =10V, I_{E} = - 1mA	-	-	25	ps
		f=30MHz				
Transition Frequency	f_T	V_{CE} =12.5V, I_{C} =12.5mA	300	-	-	MHz
Power Gain	G_pe	V_{CC} =12.5 V , I_{E} = - 12.5 mA	28	-	36	dB
		f=45MHz				

TO-92 Plastic Package

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TO-92 Transistors on Tape and Ammo Pack



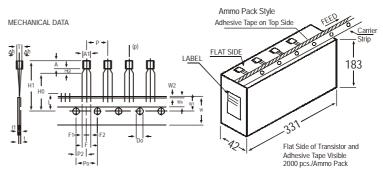


PIN CONFIGURATION

- 1. BASE
- 2. COLLECTOR
- **EMITTER**

DIM	MIN.	MAX.				
Α	4.32	5.33				
В	4.45	5.20				
С	3.18	4.19				
D	0.41	0.55				
Ε	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

ITFM		SPECIFICATION			DELLA DIVO	
I I E IVI	SYMBOL	MIN.	NOM.	MAX.	TOL.	REMARKS
BODY WIDTH BODY HEIGHT	A1 A	4.0 4.8		4.8 5.2		
BODY THICKNESS PITCH OF COMPONENT	T 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 COMPONENT ALIGNMENT TAPE WIDTH HOLD-DOWN TAPE WIDTH HOLE POSITION	F △h W Wo W1		5.08 0 18 6 9	1	+0.6 -0.2 ±0.5 ±0.2 +0.7	AT TOP OF BODY
HOLD-DOWN TAPE POSITION LEAD WIRE CLINCH HEIGHT	W2 Ho		9 0.5 16	22.25	+0.7 -0.5 ±0.2 ±0.5	
COMPONENT HEIGHT LENGTH OF SNIPPED LEADS FEED HOLE DIAMETER TOTAL TAPE THICKNESS	H1 L Do t		4	23.25 11.0 1.2	±0.2	t1 0.3 - 0.6
LEAD - TO - LEAD DISTANCEF1,	F2		2.54		+0.4 -0.1	
CLINCH HEIGHT PULL - OUT FORCE	H2 (P)	6N		3		

- 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 PITCHES.
- PITCHES.

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

 4. NO MORE THAN 3 CONSECUTIVE MISSING COMPONENTS ARE PERMITTED.

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

 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 CSC388ATM

TO-92 Plastic Package

Disclaimer

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