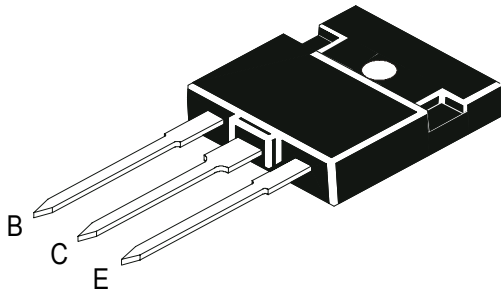


NPN HIGH VOLTAGE SILICON POWER TRANSISTORS

CSD1426F

TO-3P Fully Isolated Plastic Package



Colour TV Horizontal Output Applications.

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

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector Base Voltage	V_{CBO}	1500	V
Collector Emitter Voltage	V_{CEO}	600	V
Emitter Base Voltage	V_{EBO}	5.0	V
Collector Current -Continuous	I_C	3.5	A
Emitter Current	I_E	-3.5	A
Collector Power Dissipation @ Tc=25°C	P_C	34	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 to +150	°C

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

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Cut off Current	I_{CBO}	$V_{CB}=500V, I_E=0$			10	μA
Emitter Base Breakdown Voltage	V_{EBO}	$I_E=200mA, I_C=0$	5.0			V
DC Current Gain	h_{FE}	$I_C=0.5A, V_{CE}=5V$	8			
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=3A, I_B=0.8A$			8	V
Base Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=3A, I_B=0.8A$			1.5	V
Forward Voltage (Damper Diode)	$-V_F$	$I_F=3.5A$			2.0	V

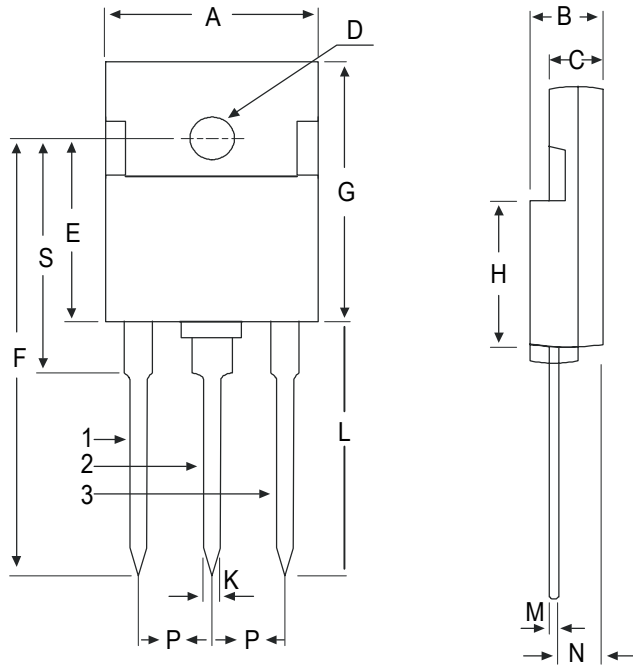
DYNAMIC CHARACTERISTICS (Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Transition Frequency	f_T	$V_{CE}=10V, I_C=100mA$		3		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$		95		pF

SWITCHING CHARACTERISTICS

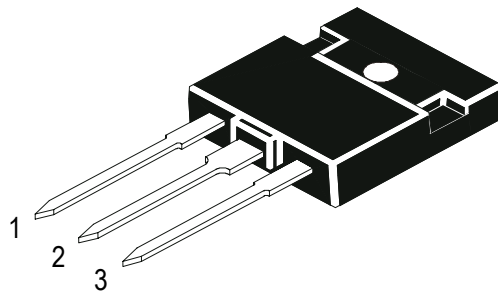
Fall Time	t_f	$I_{CP}=3A, I_{B1}(end)=0.8A$			1.0	μs
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TO-3P (TO-218) Plastic Package



DIM	MIN	MAX
A	15.80	16.40
B	5.20	5.70
C	3.80	4.20
D	Ø 3.30	Ø 3.60
E	14.50	15.10
F	33.25	36.75
G	20.75	21.25
H	11.50	12.25
K	1.00	1.30
L	18.75	21.65
M	0.40	0.60
N	3.15	3.45
P	5.21	5.72
S	18.75	19.25

All diminsions in mm.



Pin Configuration

1. Base
2. Collector
3. Emitter

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-3P	100 pcs/polybag	628 gm/100 pcs	3" x 7.5" x 7.5"	0.3K	17" x 15" x 13.5"	4.8K	42 kgs

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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Continental Device India Limited

C-120 Naraina Industrial Area, New Delhi 110 028, India.

Telephone + 91-11-579 6150 Fax + 91-11-579 9569, 579 5290

e-mail sales@cdil.com www.cdil.com