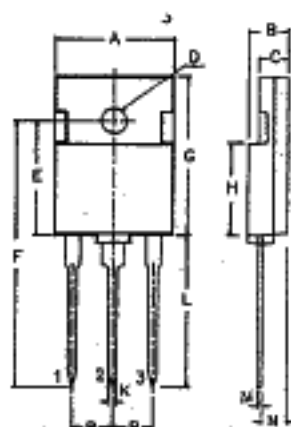
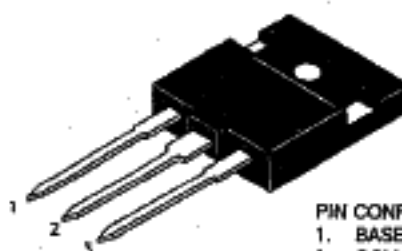


TO-3P Fully Isolated Plastic Package Transistors CDI



DIM	MIN.	MAX.
A	17.75	18.25
B	5.2	5.7
C	3.8	4.2
D	Ø 1.9	Ø 2.1
E	14.50	15.10
F	33.25	36.75
G	20.75	21.25
H	11.50	12.25
K	1.0	1.30
L	18.75	21.65
M	0.40	0.60
N	3.15	3.45
P	5.21	5.72

ALL DIMENSIONS ARE IN M.M.



PIN CONFIGURATION

1. BASE
2. COLLECTOR
3. EMITTER

TO BE MOUNTED WITH SILICONE GREASE ON THE BACK SIDE, ENSURING BACK SIDE HOLES FILLED.

Type No.	Polarity	Maximum Ratings						Electrical Characteristics (Ta = 25°C, Unless Otherwise Specified)									
		V _{CEO} (V) Min	V _{CE0} (V) Min	V _{ES0} (V) Min	P _D (W) @Tc=25°C	I _C (A)	I _{CM} (A)	I _{CES} (mA) Max	V _{CE} (V)	f _{TC} Min	f _{TC} Max	I _C (A)	V _{CE} (V)	V _{CE(sat)} (V) Max	I _C (A)	C _{ob} (pF) Typ	f _T (MHz) Typ
BU426AF	NPN	900 [†]	400	10	70	6	8	1000	900	20	60	0.6	5	3	4		10
BU426F	NPN	800 [†]	375	10	70	6	8	1000	800	20	60	0.6	5	3	4		10
BU908F	NPN	1500 [†]	700	5	34	8	15	500	1500	20	60	0.6	5	2	3.2	125	7
CSB817F	PNP	180	140	6	90	12		100 [‡]	80	20	200	1.0	5	2.5	5	300	15
CSB817OF	PNP	160	140	6	90	12		100 [‡]	80	20	120	1	5	2.5	5	300	15
CSB817YF	PNP	180	140	6	90	12		100 [‡]	80	20	200	1	5	2.5	5	300	15
CSA1301F	PNP	160	160	5	90	12		5 [§]	160	28	200	1.0	5	2.8	8	480	30
CSA1301OF	PNP	160	160	5	90	12		5 [§]	160	28	200	1	5	2.8	8	480	30
CSA1301RF	PNP	160	160	5	90	12		5 [§]	160	28	110	1	5	2.8	8	480	30
CSA1302F [Ⓢ]	PNP	200	200	5	90	15		5 [§]	200	25	200	1.0	5	3.2	10	470	25
CSA1302OF [Ⓢ]	PNP	200	200	5	90	15		5 [§]	200	25	200	1	5	3.2	10	470	25
CSA1302RF [Ⓢ]	PNP	200	200	5	90	15		5 [§]	200	25	110	1	5	3.2	10	470	25
CSC3280F	NPN	160	160	5	90	12		5 [§]	160	28	200	1.0	5	2	8	220	30
CSC3280OF	NPN	160	160	5	90	12		5 [§]	160	28	200	1	5	2	8	220	30
CSC3280RF	NPN	160	160	5	90	12		5 [§]	160	28	110	1	5	2	8	220	30
CSC3281F [Ⓢ]	NPN	200	200	5	90	15		5 [§]	200	25	200	1.0	5	3	10	270	30

[†] Flash over current, non-repetitive Max 5 A [‡] I_{CE} [§] I_{CS0} [Ⓢ] under development

CDIL TO-3P Fully Isolated Plastic Package Transistors

Maximum Ratings								Electrical Characteristics (T _a = 25°C, Unless Otherwise Specified)								
Type No.	Polarity	V _{CEO} (V) Min	V _{CSO} (V) Min	V _{ESD} (V) Min	P _D (W) @T _C =25°C	I _C (A)	I _{CM} (A)	I _{CS} (mA) Max	V _{CE} (V)	h _{FE} Min	h _{FE} Max	I _C (A)	V _{CE} (V)	V _{CE(sat)} (V) Max	I _C (A)	C _{ob} (pF) Typ
CSC32810P [Ⓢ]	NPN	200	200	5	90	15		5 [‡]	200	80 25	180	1 8	5 5	3	10	270
CSC3281R [Ⓢ]	NPN	200	200	5	90	15		5 [‡]	200	55 25	110	1 8	5 5	3	10	270
CSD1047F	NPN	160	140	6	90	12		100 [‡]	80	60 20	200	1 6	5 5	2.5	5	210
CSD1047OF	NPN	160	140	6	90	12		100 [‡]	80	60 20	120	1 6	5 5	2.5	5	210
CSD1047YF	NPN	160	140	6	90	12		100 [‡]	80	100 20	200	1 6	5 5	2.5	5	210
CSD1426F	NPN	1500	800	5	34	3.5		10 [‡]	500	8		0.5	5	8	3	95
TIP33AF	NPN	60	60	5	80	10	15	400	60	20 40	100	3 1	4 4	1 4	3 10	
TIP33BF	NPN	80	80	5	80	10	15	400	80	20 40	100	3 1	4 4	1 4	3 10	
TIP33CF	NPN	100	100	5	80	10	15	400	100	20 40	100	3 1	4 4	1 4	3 10	
TIP33F	NPN	40	40	5	80	10	15	400	40	20 40	100	3 1	4 4	1 4	3 10	
TIP34AF	PNP	60	60	5	80	10	15	400	60	20 40	100	3 1	4 4	1 4	3 10	
TIP34BF	PNP	80	80	5	80	10	15	400	80	20 40	100	3 1	4 4	1 4	3 10	
TIP34CF	PNP	100	100	5	80	10	15	400	100	20 40	100	3 1	4 4	1 4	3 10	
TIP34F	PNP	40	40	5	80	10	15	400	40	20 40	100	3 1	4 4	1 4	3 10	
TIP140F	NPN	60	60	5	60	10	20	1000 [‡]	60	1000 500		5 10	4 4	2 3	5 10	
TIP141F	NPN	80	80	5	60	10	20	1000 [‡]	80	1000 500		5 10	4 4	2 3	5 10	
TIP142F	NPN	100	100	5	60	10	20	1000 [‡]	100	1000 500		5 10	4 4	2 3	5 10	
TIP145F	PNP	60	60	5	60	10	20	1000 [‡]	60	1000 500		5 10	4 4	2 3	5 10	
TIP146F	PNP	80	80	5	60	10	20	1000 [‡]	80	1000 500		5 10	4 4	2 3	5 10	
TIP147F	PNP	100	100	5	60	10	20	1000 [‡]	100	1000 500		5 10	4 4	2 3	5 10	
TIP2955F	PNP	100	60	7	90	15		1000 [‡]	70	20 5	70	4 10	4 4	1.1 3	4 10	
TIP2955HVF	PNP	120	100	7	60	15		5000 ^{**}	100	20 5	100	4 10	4 4	1.1 3	4 10	
TIP3055F	NPN	100	80	7	90	15		1000 [‡]	70	20 5	150	4 10	4 4	3 3	10 10	
TIP3055HVF	NPN	120	120	7	60	15		5000 ^{**}	100	20 5	100	4 10	4 4	1.1 3	4 10	

* Flash over current, non-repetitive Max 5 A †=I₁ Min ‡=I_{CSO} †=I_{CS} **=I_{CEV} Ⓢ under development