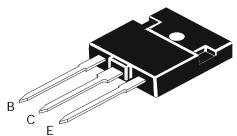


POWER TRANSISTORS



TIP35F, AF, BF, CF NPN TIP36F, AF, BF, CF PNP

TO- 3PF Fully Isolated Plastic Package

For General Purpose Power Amplifier and Switching Applications.

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	TIP35F	TIP35AF	TIP35BF	TIP35CF		
		TIP36F	TIP36AF	TIP36BF	TIP36CF	UNIT	
Collector Emitter Voltage	V _{CEO}	40	60	80	100	V	
Collector Base Voltage	V _{CBO}	40	60	80	100	V	
Emitter Base Voltage	V _{EBO}	5.0				V	
Collector Current Continuous	Ι _C	25				А	
Collector Current Peak	I _{CM}	40				А	
Base Current Continuous	Ι _Β	5.0				А	
Collector Power Dissipation at T _c =25 ^o C	Pc	125				W	
Operating and Storage Junction Temperature Range	T_{j},T_{stg}	- 65 to +150				٥C	
THERMAL CHARACTERISTICS	•				·		
Thermal Desistance Ismetica to Osea	Р		4	1.0			

Thermal Resistance, Junction to CaseR1.0°C/W

ELECTRICAL CHARACTERISTICS ($T_j=25^{\circ}C$ unless specified otherwise)

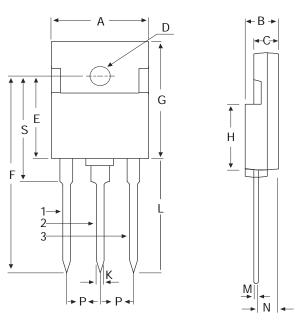
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Emitter Sustaining Voltage	*V _{CEO (sus)}	I _C =30mA, I _B =0				
		TIP35F/TIP36F	40			V
		TIP35AF/TIP36AF	60			V
		TIP35BF/TIP36BF	80			V
		TIP35CF/TIP36CF	100			V
Collector Emitter Cut Off Current	I _{CEO}	V _{CE} =30V, I _B =0				
		TIP35AF/TIP36AF			1.0	mA
		V _{CE} =60V, I _B =0				
		TIP35BF/CF, TIP36BF/CF			1.0	mA
Collector Emitter Cut Off Current	I _{CES}	V_{CE} =Rated V_{CEO} , V_{EB} =0			0.7	mA
Emitter Base Cut Off Current	I _{EBO}	V_{EB} =5V, I_{C} =0			1.0	mA
DC Current Gain	*h _{FE}	I _C =1.5A, V _{CE} =4V	25			
		I _C =15A, V _{CE} =4V	15		75	
Collector Emitter Saturation Voltage	*V _{CE (sat)}	I _C =15A, I _B =1.5A			1.8	V
		I _C =25A, I _B =5A			4.0	V
Base Emitter On Voltage	*V _{BE (on)}	I _C =15A, V _{CE} =4V			2.0	V
		I _C =25A, V _{CE} =4V			4.0	V
Transition Frequency	f _T	I _C =1A, V _{CE} =10V	3.0			MHz

*Pulse test: Pulse width 300m, Duty cycle <2%

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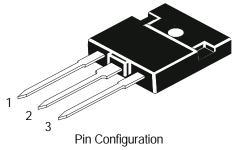
TIP35F, AF, BF, CF NPN TIP36F, AF, BF, CF PNP

TO- 3PF Fully Isolated Plastic Package



DIM	MIN	MAX	
A	15.80	16.40	
В	5.20	5.70	
С	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	
Н	11.50	12.25	
К	1.00	1.30	
L	18.75	21.65	
Μ	0.40	0.60	
N	3.15	3.45	
Р	5.21	5.72	
S	18.75	19.25	

All diminsions in mm.



- 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	GrWt
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

TIP35F_36FRev041007E

TO-3P (TO-218) Plastic Package

TO- 3PF Fully Isolated Plastic Package

Component Disposal Instructions

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Disclaimer

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