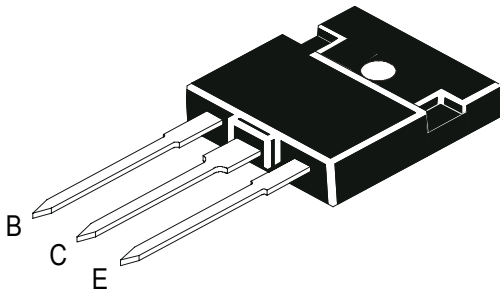
PNP POWER TRANSISTOR

TIP2955F

TO 3P
Plastic Package



Complementary TIP3055F

General Purpose Switchilng and Amplifier Applications

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

DESCRIPTION	SYMBOL	MAX	MIN	UNIT
Collector -Base Voltage(open emitter)	V_{CBO}		100	V
Collector -Emitter Voltage(open base)	V_{CEO}		60	V
Collector Emitter Voltage	V_{CER}	70		V
Emitter Base Voltage(open collector)	V_{EBO}		7.0	V
Collector Current	I_C	15		A
Base Current	I_B	7.0		A
Total Power Dissipation upto Tc=25º C	P_{tot}	90		W
Junction Temperature	T_j	150		ºC
Storage Temperature	T_{stg}	-55 to +150		ºC
THERMAL RESISTANCE				
Junction to Case	$R_{th\ (j-c)}$	1.39		ºC/W
Junction to Ambient	$R_{th\ (j-a)}$	35.7		ºC/W

ELECTRICAL CHARACTERISTICS (Ta=25ºC unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Cut off Current	I_{CEO}	V_{CE}=30V, I_B=0			0.7	mA
	I_{CEV}	$V_{BE(off)}$ =1.5V, V_{CE}=100V			5.0	mA
	I_{CER}	R_{BE}=100Ω, V_{CE}= 70V			1.0	mA
Emitter Cut off Current	I_{EBO}	V_{EB}=7V, I_C=0			5.0	mA
Breakdown Voltages						
	$V_{CEO\ (sus)}$*	I_C=30mA, I_B=0	60			V
	V_{CBO}	I_C=30mA, I_E=0	100			V
	V_{EBO}	I_E= 1mA, I_C=0	7.0			V
Saturation Voltages						
	$V_{CE(sat)}$ *	I_C=4A, I_B=0.4A			1.1	V
	$V_{CE(sat)}$ *	I_C=10A, I_B=3.3A			3.0	V

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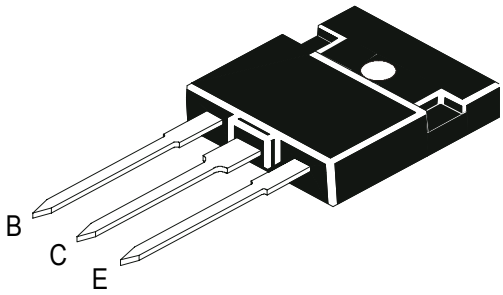
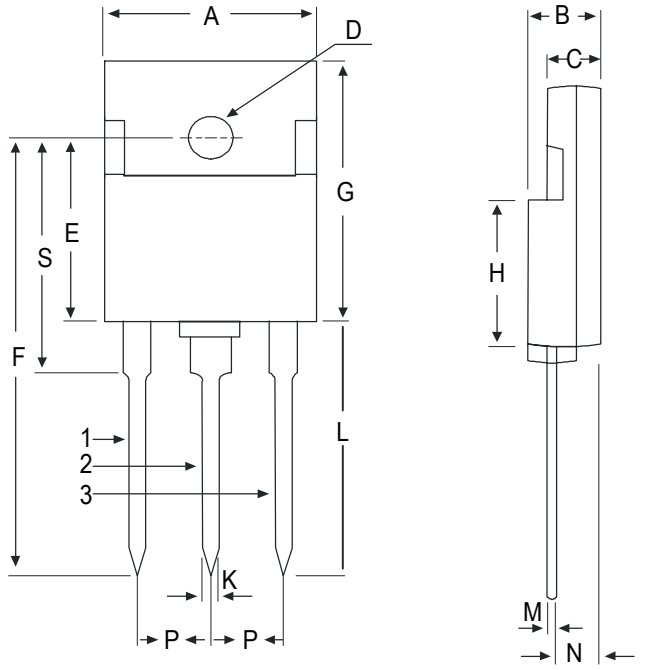


DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Base Emitter on Voltage	$V_{BE\ (on)}$ *	I_C=4A, V_{CE}=4V			1.8	V
DC Current Gain	h_{FE} *	I_C=4A,V_{CE}=4V	20		70	
		I_C=10A,V_{CE}=4V	5.0			
Small Signal Current Gain	I hfe I	I_C=1.0, V_{CE}=4V, f=1KHz	15			KHz
Transition frequency at f=1MHz	f_T	I_C=0.5A,V_{CE}=10V	2.5			MHz

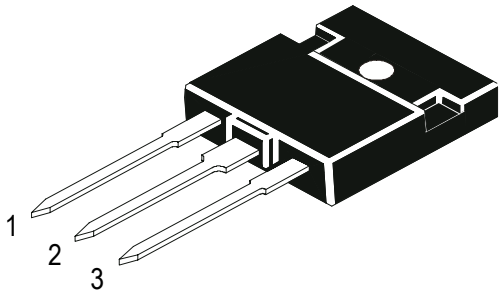
*** Pulse test : Pulse width =3μs, Duty cycle ≤ 2%**

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

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