

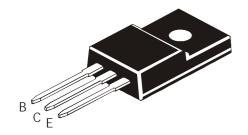
TÜV MANGEMENT SERVICE



An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company

NPN SILICON POWER TRANSISTOR

CFC4662



TO-220FP Fully Isolated Plastic Package

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT	
Collector Base Voltage	V_{CBO}	500	V	
Collector Emitter Voltage	V_{CEO}	400	V	
Emitter Base Voltage	V_{EBO}	10	V	
RMS Isolation Voltage (for 1sec, R.H.	** V _{ISOL} (a)	3500	V_{RMS}	
<30%, T _a = 25°C)	(b)	1500	V_{RMS}	
Collector Current (DC)	I _C	5	А	
Collector Current (Pulse)	I _C	10	А	
Base Current	I _B	2	А	
Power Dissipation upto T _c =25°C	P _C	30	W	
Junction Temperature	T _j	150	°C	
Storage Temperature	T _{stg}	- 55 to +150	°C	

^{**} RMS Isolation Voltage: (a) 3500 V_{RMS} with Package in Clip Mounting Position (b) 1500 V_{RMS} with Package in Screw Mounting Position (for 1sec, R.H.<30%, T_a =25°C; Pulse Test: Pulse Width \leq 300ms, Duty Cycle \leq 2%)

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

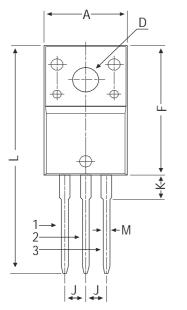
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DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Collector Cut Off Current	Сво	$V_{CB} = 500V, I_{E} = 0$		100	μΑ
Emitter Cut Off Current	₽BO	$V_{EB}=10V$, $I_{C}=0$		100	μΑ
Collector Emitter Voltage	V_{CEO}	$I_C=25$ mA, $I_B=0$	400		V
DC Current Gain	h _{FE}	I _C =1.5A, V _{CE} =4V	10	30	
Collector Emitter Saturation Voltage	V _{CE (sat)}	I _C =1.5A, I _B =0.3A		0.5	V
Base Emitter Saturation Voltage	V _{BE (sat)}	$I_{C}=1.5A, I_{B}=0.3A$		1.3	V
Transition Frequency	f _T	$I_C=0.3A, V_{CE}=12V$	TYP 20		MHz
Collector Capacitance	C _{ob}	$I_E=0$, $V_{CB}=10V$, $f=1MHz$	TYP 30		pF

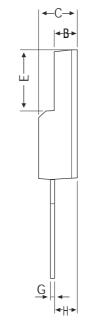
SWITCHING TIMES

Turn On Time	t _{on}	t_{on} V_{CC} =200V, R_L =133 Ω , I_C =1.5A		1.0	μs	
Storage Time	t _{stg}	$V_{BB1} = 10V, V_{BB2} = -5V$		2.5	μs	
Fall Time	t _f	$I_{B1} = 0.15A, I_{B2} = -0.3A$		0.5	μs	

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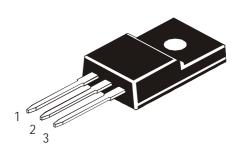
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DIM	MIN	MAX				
Α	9.96	10.36				
В	2.60	3.00				
С	4.50	4.90				
D	3.10	3.30				
E	7.90	8.20				
F	16.87	17.27				
G	0.45	0.50				
Н	2.56	2.96				
J	2.34	2.74				
K	_	3.08				
L		30.05				
М	_	0.80				
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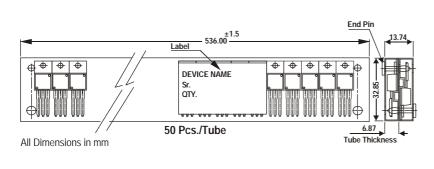


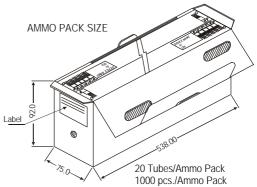


Pin Configuration

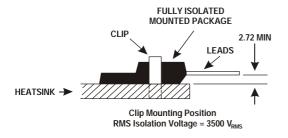
- 1. Base
- 2. Collector
- 3. Emitter

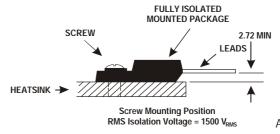
TO-220 FP Tube Packing





Mounting Option for TO-220FP





All dimensions in mm

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-220FP	200 pcs/polybag 50 pcs/tube	396 gm/200 pcs 135 gm/50 pcs	3" x 7.5" x 7.5" 3.5" x 3.7" x 21.5"		17" x 15" x 13.5" 19" x 19" x 19"	16K 10K	36 kgs 28 kgs

Notes CFC4662

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Disclaimer

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