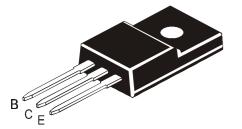


NPN SILICON PLANAR POWER TRANSISTOR



CFD1499

TO-220FP Fully Isolated Plastic Package

Complementary CFB1063

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT	
Collector Base Voltage	V _{CBO}	100	V	
Collector Emitter Voltage	V _{CEO}	100	V	
Emitter Base Voltage	V _{EBO}	5.0	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 Peak	I _{CP}	8.0	A	
Collector Current	I _C	5.0	A	
Collector Power Dissipation @T _a =25°C	P _C	2.0	W	
@T _c =25°C		40	W	
Junction Temperature	Tj	150	٥C	
Storage Temperature Range	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 <300ms, Duty Cycle<2%)</p>

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

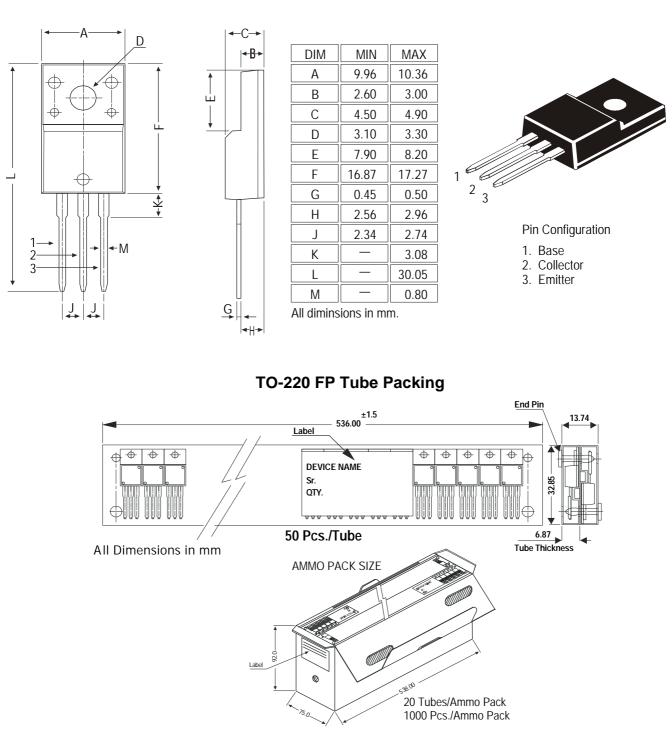
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Cut Off Current	Сво	V _{CB} =100V, I _E =0			50	μΑ
Emitter Cut Off Current	I _{EBO}	V _{EB} =3V, I _C =0			50	μA
DC Current Gain	h _{FE}	V_{CE} =5V, I_{C} =20mA	20			
	*h _{FE}	V_{CE} =5V, I_C =1A	60		200	
	h _{FE}	V_{CE} =5V, I_C =3A	20			
Collector Emitter Saturation Voltage	V _{CE(sat)}	I _C =3A, I _B = 0.3A			2.0	V
Base Emitter On Voltage	$V_{BE(on)}$	V_{CE} =5V, I_C =3A			1.8	V
Transition Frequency	f⊤	$V_{CE} = 5V, I_{C} = 0.5A,$		20		MHz
		f=1MHz				
Collector Output Capacitance	C _{ob}	V _{CB} = 10V, f=1MHz		90		pF

*h_{FE} Classification

Q : 60 - 120

P : 100 - 200

TO-220FP Fully Isolated Plastic Package



TO-220FP Fully Isolated Plastic Package

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

CFD1499

TO-220FP Fully Isolated Plastic Package

Disclaimer

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