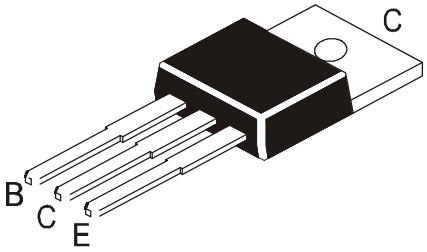
NPN PLASTIC POWER TRANSISTOR

SJE1349

TO-220
Plastic Package



Power Linear and Switching Applications

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector Base Voltage	V_{CBO}	73	V
Collector Emitter Voltage	V_{CEO}	63	V
Emitter Base Voltage	V_{EBO}	7	V
Collector Current	I_C	6	A
Collector Current Peak	I_{CM}	10	A
Base Current Continuous	I_B	2	A
Power Dissipation upto T_c=25ºC	P_D	65	W
Operating And Storage Junction Temperature Range	T_j, T_{stg}	- 65 to +150	ºC

THERMAL RESISTANCE

Junction to Ambient in free air	$R_{th\ (j-a)}$	62.5	ºC/W
Junction to Case	$R_{th\ (j-c)}$	1.92	ºC/W

ELECTRICAL CHARACTERISTICS (T_c=25ºC Unless Specified Otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Emitter (sus) Voltage	*$V_{CEO\ (sus)}$	I_C=30mA, I_B=0	63			V
Collector Cut Off Current	I_{CBO}	V_{CB}=63V, I_E=0			0.3	mA
Collector Cut Off Current	I_{CES}	V_{CE}=73V, V_{BE}=0			0.3	mA
Emitter Cut Off Current	I_{EBO}	V_{EB}=5.2V, I_C=0			0.9	mA
DC Current Gain	*h_{FE}	I_C=4A, V_{CE}=4V	43		100	
Collector Emitter Saturation Voltage	*$V_{CE\ (sat)}$	I_C=4A, I_B=480mA I_C=10A, I_B=1A			1.07 3.0	V V

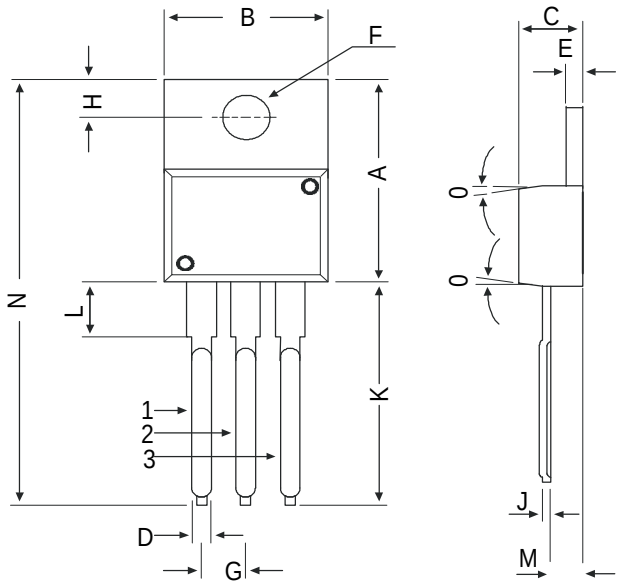
Switching Time

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Small Signal Current	h_{fe}	I_C=0.5A, V_{CE}=10V, f=1KHz	20			
Transition Frequency	f_T	I_C=0.5A, V_{CE}=10V, f=1MHz	3			MHz

***Pulse test $t_p \leq$300ms, Duty cycle $\leq$ 2%**

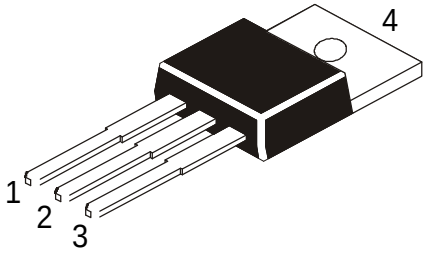
SJE1349 Rev_1 230703E

TO-220 Plastic Package



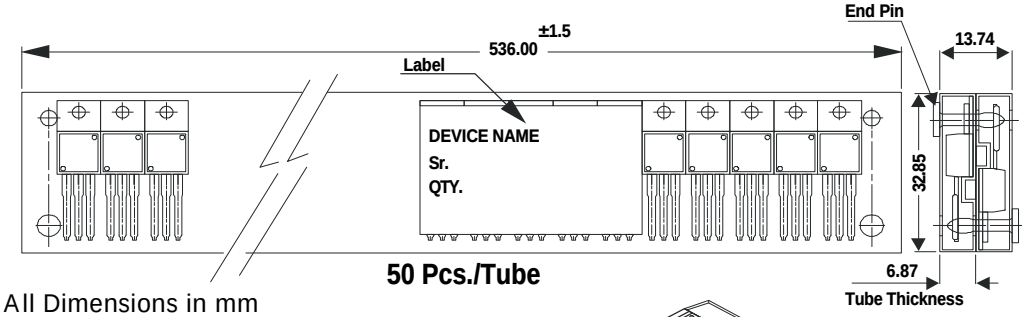
DIM	MIN	MAX
A	14.42	16.51
B	9.63	10.67
C	3.56	4.83
D	—	0.90
E	1.15	1.40
F	3.75	3.88
G	2.29	2.79
H	2.54	3.43
J	—	0.56
K	12.70	14.73
L	2.80	4.07
M	2.03	2.92
N	—	31.24
O	7 DEG	

All diminsions in mm.



Pin Configuration
1. Base
2. Collector
3. Emitter
4. Collector

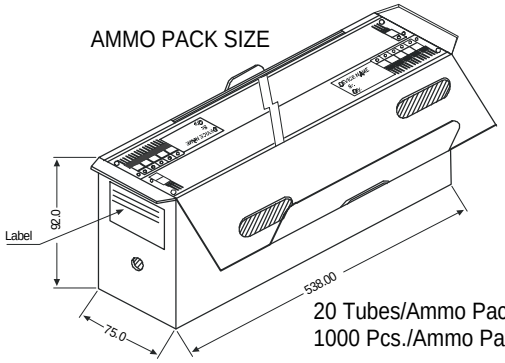
TO-220 Tube Packing



50 Pcs./Tube

All Dimensions in mm

AMMO PACK SIZE



20 Tubes/Ammo Pack
1000 Pcs./Ammo Pack

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-220	200 pcs/polybag	396 gm/200 pcs	3" x 7.5" x 7.5"	1.0K	17" x 15" x 13.5"	16.0K	36 kgs
	50 pcs/tube	120 gm/50 pcs	3.5" x 3.7" x 21.5"	1.0K	19" x 19" x 19"	10.0K	29 kgs

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