

MJE13005 (4A)

The NPN high-voltage switch transistor

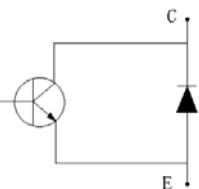
- use:

Mainly used for energy-saving lamps, fluorescent lamp electronic ballast, mainly used for energy-saving lamps, fluorescent lamp electronic ballast

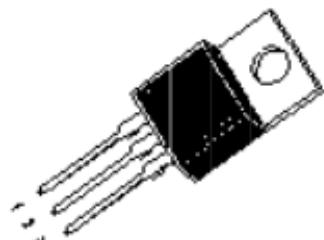
- feature:

Maximum collector current I_{CM} : 4A

- inner structure:



TO-220



- Packaging form:

T0-220

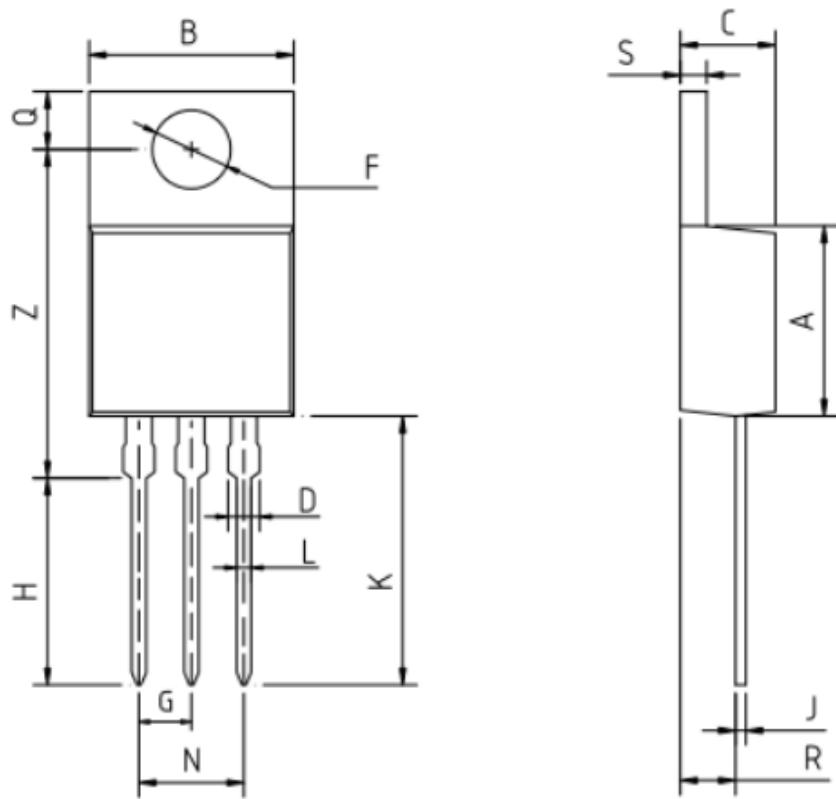
- electrical characteristics ($T_a=25^\circ\text{C}$)

Parameter name	symbol	test condition	least value	crest value	representative value	unit
Collector-base reverse current	I_{CBO}	$V_{CB}=670\text{V}$		1		μA
Emitter-base reverse current	I_{EBO}	$V_{EB}=9\text{V}$		1		μA
Collector-base electrode breakdown voltage	BV_{CBO}	$I_C=0.1\text{mA}$	700		780	V
Collector-emitter breakdown voltage	BV_{CEO}	$I_C=1\text{mA}$	410	520	480	V

Transmitter-base breakdown voltage	pole BV _{EBO}	I _E =0.1mA	9			V
DC current gain	h _{FE}	V _{CE} =5V,I _C =0.5A	15	30		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =2A ,I _B =0.5A		0.5		V
period of storage	t _S	I _c =0.5A, UI9600	2	3.5		μ s

Size diagram of TO-220

unit:mm



symbol	least value	representative value	crest value
A	8.8	9	9.2
B	9.5	10	10.5
C	4.5	4.5	4.8
D	1.2	1.25	1.3
F	$\Phi 3.4$	$\Phi 3.6$	$\Phi 3.8$
G		2.54	
H	9.5	10	10.5
J	0.43	0.45	0.47
K	13	13.5	14
L	0.75	0.8	0.85
N		5.08	

Q	2.7	2.8	2.9
R	2.7	2.75	2.8
S	1.2	1.25	1.3
Z	15.7	15.9	16.1