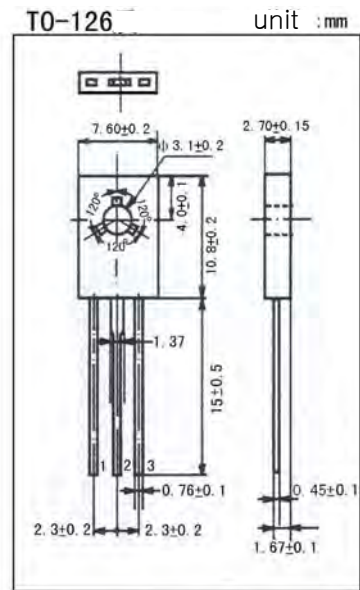


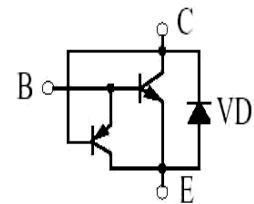
MJE13005T

TRANSISTOR (NPN)

High frequency electronic lighting
switching power supply applications.



1. B 2. C 3. E



Symbol	Rating	Unit
V_{CBO}	700	V
V_{CEO}	400	V
V_{EBO}	9.0	V
I_C	4	A
$P_C(T_a=25^\circ\text{C})$	1.25	W
$P_C(T_c=25^\circ\text{C})$	50	W
T_j	150	$^\circ\text{C}$
T_{stg}	-55~150	$^\circ\text{C}$

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

Symbol	Test condition	Rating			Unit
		Min	Typ	Max	
V_{CBO}	$I_C=1\text{mA}$ $I_E=0$	800			V
V_{CEO}	$I_C=10\text{mA}$ $I_B=0$	400			V
V_{EBO}	$I_E=1\text{mA}$ $I_C=0$	9.0			V
I_{CBO}	$V_{CB}=800\text{V}$ $I_E=0$			0.1	mA
I_{CEO}	$V_{CE}=400\text{V}$ $I_B=0$			0.1	mA
I_{EBO}	$V_{EB}=9.0\text{V}$ $I_C=0$			0.1	mA
$h_{FE(1)}$	$V_{CE}=5.0\text{V}$ $I_C=1.0\text{A}$	10		50	
$h_{FE(2)}$	$V_{CE}=5.0\text{V}$ $I_C=2.0\text{A}$	8		40	
$V_{CE(sat)}$	$I_C=2.0\text{A}$ $I_B=0.4\text{A}$			1.0	V
$V_{BE(sat)}$	$I_C=2.0\text{A}$ $I_B=0.4\text{A}$			1.6	V
f_T	$V_{CE}=10\text{V}$ $I_C=0.5\text{A}$ $f=1.0\text{MHz}$	5.0			MHz
t_f	$V_{CE}=5\text{V}$ $I_C=0.5\text{A}$			0.8	μs
t_s	(UI9600)			4.0	μs

Typical Characteristics

