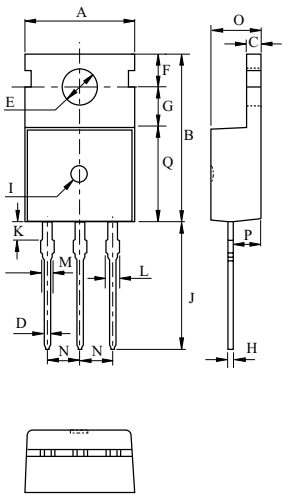
MJE5555

TRIPLE DIFFUSED NPN TRANSISTOR

SWITCHING REGULATOR APPLICATION.
HIGH VOLTAGE SWITCHING APPLICATION.
HIGH SPEED DC-DC CONVERTER APPLICATION.
FLUORESCENT LIGHT BALLASTOR APPLICATION.

FEATURES

· Excellent Switching Times
: t_{stg}=2.5㎲(Max.), t_f=0.3㎲(Max.), at I_C=2.5A
· High Collector Voltage : V_{CBO}=1050V.



DIM	MILLIMETERS
A	9.9± 0.2
B	15.95 MAX
C	1.3+0.1/-0.05
D	0.8± 0.1
E	ø 3.6 ± 0.2
F	2.8± 0.1
G	3.7
H	0.5+0.1/-0.05
I	ø 1.5
J	13.08± 0.3
K	1.46
L	1.4± 0.1
M	1.27± 0.1
N	2.54± 0.2
O	4.5± 0.2
P	2.4± 0.2
Q	9.2± 0.2

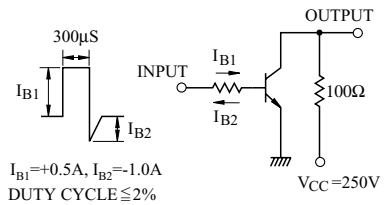
1. BASE
2. COLLECTOR (HEAT SINK)
3. EMITTER

TO-220AB

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	1050	V
Collector-Emitter Voltage		V_{CEO}	400	V
Emitter-Base Voltage		V_{EBO}	12	V
Collector Current	DC	I_C	5	A
	Pulse	I_{CP}	10	
Base Current		I_B	2.5	A
Collector Power Dissipation (Tc=25℃)		P_C	75	W
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55～150	℃

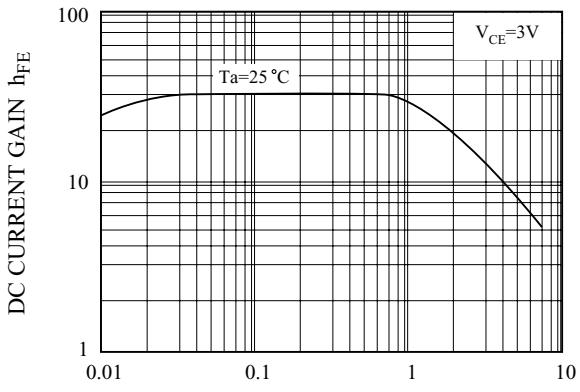
ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Emitter Cut-off Current	I_{EBO}	V_{EB}=14V, I_C=0	-	-	10	㎂
DC Current Gain	h_{FE}(1)	V_{CE}=5V, I_C=10mA	10	-	-	
	h_{FE}(2)	V_{CE}=3V, I_C=0.8A	20	-	40	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=1A, I_B=0.2A	-	-	0.5	V
		I_C=3.5A, I_B=1A	-	-	1.5	
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=3.5A, I_B=1A	-	-	1.2	V
		I_C=2A, I_B=0.5A	-	-	1.6	
Collector Output Capacitance	C_{ob}	V_{CB}=10V, f=0.1MHz, I_E=0	-	45	-	pF
Turn-On Time	t_{on}		-	-	2.0	㎲
Storage Time	t_{stg}		-	-	2.5	㎲
Fall Time	t_f		-	-	0.3	㎲

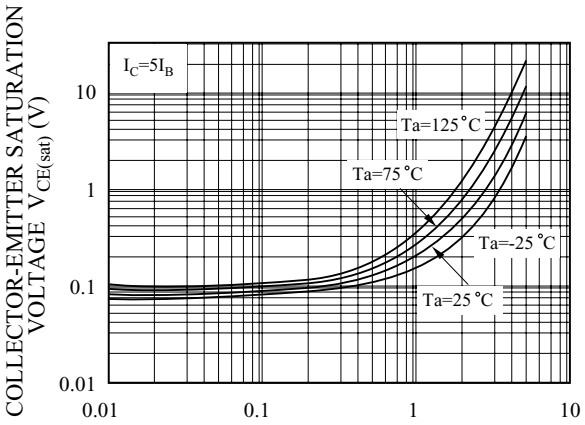
I_{B1}=+0.5A, I_{B2}=-1.0A
DUTY CYCLE≦2%

Note : h_{FE} Classification R:20～30, O:25～35, Y: 30~40

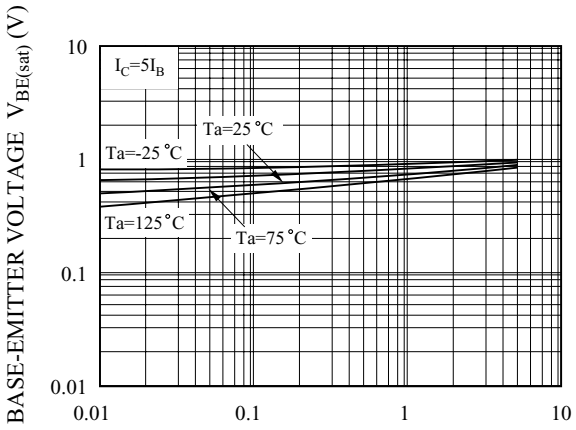
h_{FE} - I_C



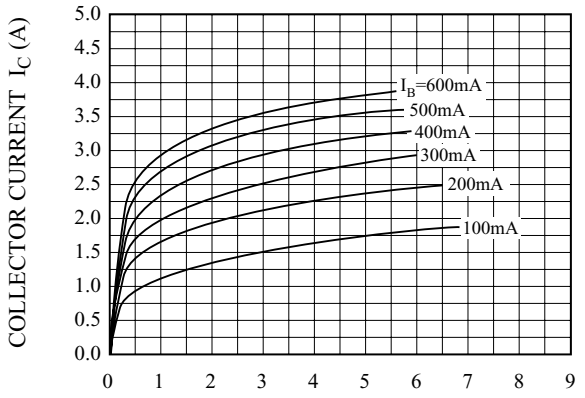
$V_{CE(sat)}$ - I_C



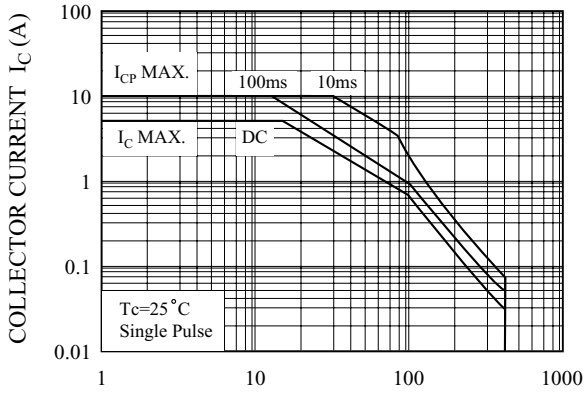
$V_{BE(sat)}$ - I_C



I_C - V_{CE}



SAFE OPERATING AREA



P_C - Ta

