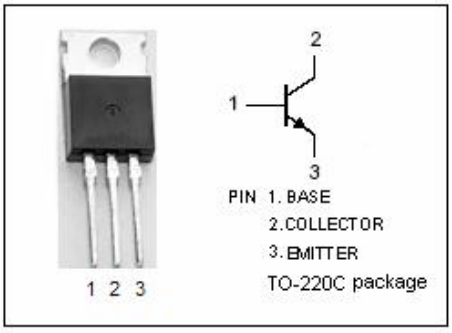
isc Silicon NPN Power Transistor — FJP3305

DESCRIPTION

- Large current capacitance
- High Power Dissipation
- Low saturation voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

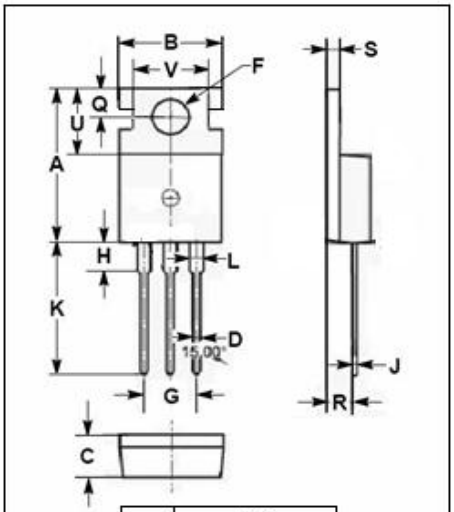


APPLICATIONS

- High speed switching applications
- Suitable for Electronic Ballast and Switching Regulator

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	700	V
V_{CEO}	Collector-Emitter Voltage	400	V
V_{EBO}	Emitter-Base Voltage	9	V
I_C	Collector Current-Continuous	4	A
I_{CM}	Collector Current-Pulse	8	A
I_B	Base Current-Continuous	2	A
P_C	Collector Power Dissipation @ T_C=25℃	75	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-65~150	℃



DIM	mm MIN	mm MAX
A	15.50	15.90
B	9.80	10.20
C	4.20	4.50
D	0.70	0.90
F	3.40	3.70
G	4.98	5.18
H	2.68	2.90
J	0.44	0.60
K	12.80	13.40
L	1.20	1.45
Q	2.70	2.90
R	2.30	2.70
S	1.29	1.35
U	6.45	6.65
V	8.66	8.86

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CBO}$	Collector-Base Breakdwon Voltage	IC = 500μA, IE = 0	700			V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	IC = 5mA, IB = 0	400			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	IE = 500μA, IC = 0	9			V
$V_{CE(sat)-1}$	Collector-Emitter Saturation Voltage	I_C= 1A; I_B= 0.2A			0.5	V
$V_{CE(sat)-2}$	Collector-Emitter Saturation Voltage	I_C= 2A; I_B= 0.5A			0.6	V
$V_{CE(sat)-3}$	Collector-Emitter Saturation Voltage	I_C= 4A; I_B= 1A			1	V
$V_{BE(sat)-1}$	Base-Emitter Saturation Voltage	I_C= 1A; I_B= 0.2A			1.2	V
$V_{BE(sat)-2}$	Base-Emitter Saturation Voltage	I_C= 2A; I_B= 0.5A			1.6	V
I_{CBO}	Collector Cutoff Current	V_{CB}=700V; I_E= 0			1	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 9V; I_C= 0			1	μA
h_{FE-1}	DC Current Gain	I_C= 1A ; V_{CE}= 5V	19		35	
h_{FE-2}	DC Current Gain	I_C= 2A ; V_{CE}= 5V	8		40	

◆ **h_{FE} Classifications**

O	Y
19-28	26-35

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