

isc Silicon NPN Power Transistor

FJP3305

DESCRIPTION

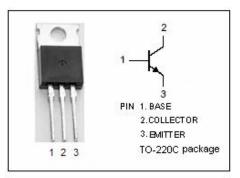
- Large current capacitance
- High Power Dissipation
- Low saturation voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

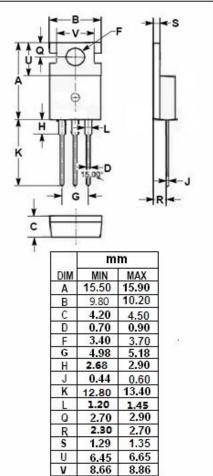
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25 °C)

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	
lc	Collector Current-Continuous	А		
I _{CM}	Collector Current-Pulse	8	А	
lв	Base Current-Continuous 2		А	
Pc	Collector Power Dissipation @ $T_C=25^{\circ}C$	75	W	
TJ	Junction Temperature	150 °C		
T _{stg}	Storage Temperature Range -65~150 °C			





isc Website: <u>www.iscsemi.cn</u>

isc & iscsemi is registered trademark



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25^{\circ}\!\!\!^{\circ}\!\!^{\circ}\!\!^{\circ}$ 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 = 2Α; I _B = 0.5Α			1.6	V
Ісво	Collector Cutoff Current	V _{CB} =700V; I _E = 0			1	μ Α
I _{EBO}	Emitter Cutoff Current	V _{EB} = 9V; I _C = 0			1	μ Α
h _{FE-1}	DC Current Gain	Ic= 1A ; V _{CE} = 5V	19		35	
h _{FE-2}	DC Current Gain	I _C = 2A ; V _{CE} = 5V	8		40	

h_{FE} Classifications

0	Y		
19-28	26-35		

NOTICE:

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