

isc Silicon NPN Power Transistor

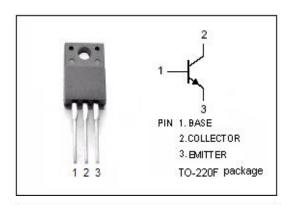
FJPF5021

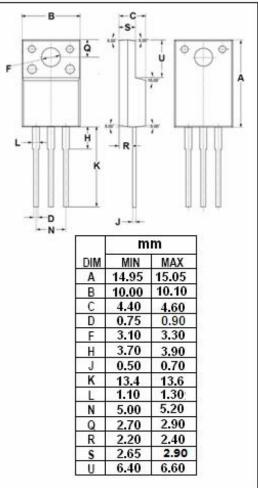
DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 500V(Min)
- · High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	800	V	
V _{CEO}	Collector-Emitter Voltage	500	V	
V _{EBO}	Emitter-Base Voltage	7	V	
Ic	Collector Current-Continuous	5	А	
Ісм	Collector Current-Peak	10	А	
I _B	Base Current-Continuous	2	А	
Pc	Collector Power Dissipation @T _C =25°C 40		W	
TJ	Junction Temperature	150	$^{\circ}$ C	
T _{stg}	torage Temperature -55~150		°C	







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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
BV _{EBO}	Emitter -Base Breakdown Voltage	I _E = 1mA; I _C = 0	7			V
BV _{CEO}	Collector- Emitter Breakdown Voltage	I _C = 5mA; I _B = 0	500			V
BV _{CBO}	Collector- Base Breakdown Voltage	I _C = 1mA; I _E = 0	800			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μ А
h _{FE}	DC Current Gain	I _C = 0.6A; V _{CE} = 5V	15		50	
h _{FE}	DC Current Gain	I _C = 3A; V _{CE} = 5V	8			

♦ h _{FE-1} Classifications

R	0	Y
15-30	20-40	30-50

NOTICE:

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