

isc Silicon NPN Power Transistor

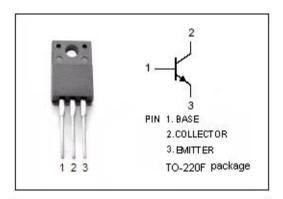
BUV46FI

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 400V(Min.)
- · High Speed Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for high voltage, fast switching applications.

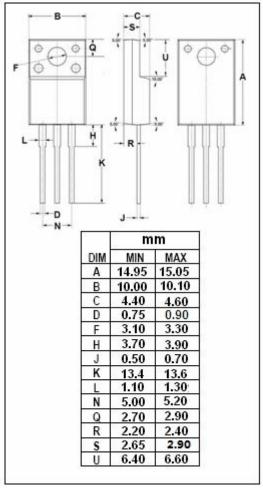


ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1000	V	
VCEO	Collector-Emitter Voltage	400	V	
V _{EBO}	Emitter-Base Voltage	7	V	
Ic	Collector Current-Continuous	5	А	
I _B	Base Current-Continuous	3	Α	
Pc	Collector Power Dissipation @Tc=25°C 30		W	
Tj	Junction Temperature	tion Temperature 150		
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$ C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance, Junction to Case		°C/W





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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	400			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.5A			1.5	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 3.5A; I _B = 0.7A			5.0	٧
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.5A			1.3	٧
I _{CBO}	Collector Cutoff Current	V _{CE} = 1000V ; I _B = 0			0.3	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			1.0	mA



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