

isc Silicon NPN Power Transistor

BUL1102E

DESCRIPTION

- · High Voltage
- High Speed Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

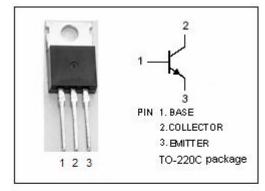
·Four lamp electronic ballsat for : 120v mains in push-pull configuration

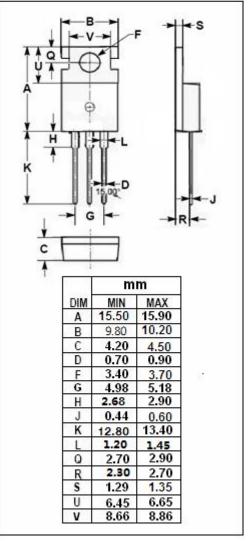
ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1100	V	
Vces	Collector-Emitter Voltage V _{BE} = 0	1100	V	
V _{CEO}	Collector-Emitter Voltage	450	V	
V _{EBO}	Emitter-Base Voltage	12	V	
Ic	Collector Current-Continuous	4	Α	
I _{CM}	Collector Current-Peak	8	Α	
I _B	Base Current	2	Α	
I _{BM}	Base Current-Peak	4	Α	
Pc	Collector Power Dissipation @T _C =25°C	100	W	
Tj	Junction Temperature 150		$^{\circ}$	
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}\!\mathbb{C}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.25	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 100mA; I _B = 0	450			V			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A			1.5	V			
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A			1.5	V			
I _{CES}	Collector Cutoff Current	V _{CE} = 1100V; V _{BE} = 0			0.1	mA			
I _{EBO}	Collector Cutoff Current	V _{CE} = 12V; I _B = 0			1	mA			
h _{FE-1}	DC Current Gain	I _C = 250mA; V _{CE} = 5V	35		70				
h _{FE-2}	DC Current Gain	I _C = 2A; V _{CE} = 5V	12		20				

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