

isc Silicon NPN Power Transistor

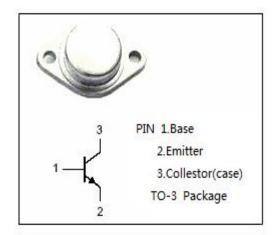
BU209

DESCRIPTION

- · High Reverse Voltage
- High Peak Power
- Collector Current- I_C = 4A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Designed for use in horizontal deflection circuits in color TV receivers.

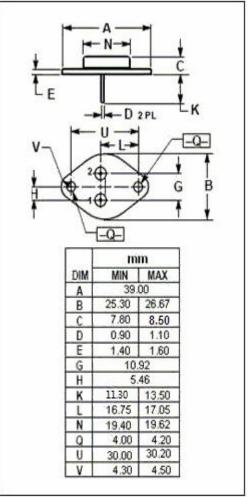


ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CES}	Collector-Emitter Voltage	1300	V
V _{CEO}	Collector-Emitter Voltage	750	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	4	Α
I _{CM}	Collector Current-Peak	7.5	Α
lΒ	Base Current-Continuous	2.5	А
I _{BM}	Base Current-Peak	4	А
Pc	Collector Power Dissipation $@T_C \le 95^{\circ}C$	12.5	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.6	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT				
$V_{(BR)CES}$	Collector-Emitter Breakdown Voltage	I _C = 10mA	1300			V				
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 10mA ; I _C = 0	5			V				
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 1.3A			5.0	V				
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 1.3A			1.5	V				
h _{FE}	DC Current Gain	I _C = 3A; V _{CE} = 5V	2.25							
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V;f _{test} = 1MHz		125		pF				
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A;V _{CE} = 5V;f _{test} = 5MHz		7		MHz				
Switching Times										
ts	Storage Time	1 - 20:1 - 4 90:1 - 40::1			10	μ \$				
tf	Fall Time	- I _C = 3A; I _B = 1.8A;L _B = 10 μ H			0.7	μs				

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