

isc Silicon NPN Power Transistor

BU536

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO} = 480V(Min.)
- High Speed Switching
- High Power Dissipation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

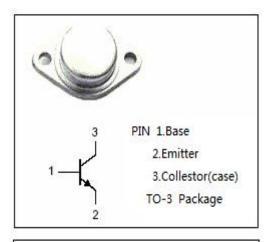
• Designed for use in switching mode power supply.

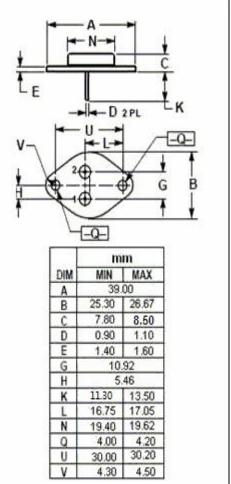
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CER}	Collector-Emitter Voltage $R_{BE} \approx 100 \Omega$	1100	V
V _{CES}	Collector-Emitter Voltage	1100	V
V _{CEO}	Collector-Emitter Voltage	480	V
V _{EBO}	Emitter-Base Voltage	6	V
lc	Collector Current-Continuous	8	А
Ісм	Collector Current-Peak	10	А
I _B	Base Current-Continuous	4	A
Pc	Collector Power Dissipation @ T_c =25°C	62	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.0	°C/W





isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B =0	480			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 1A			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8A			1.4	V
I _{CES}	Collector Cutoff Current	V _{CE} = 1100V; V _{BE} = 0; V _{CE} = 1100V; V _{BE} = 0; T _C = 150℃			1.0 2.0	mA
hfe-1	DC Current Gain	I _C = 1A; V _{CE} = 5V	10			
h _{FE-2}	DC Current Gain	I _C = 4A; V _{CE} = 5V	5.5			
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V		10		MHz

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