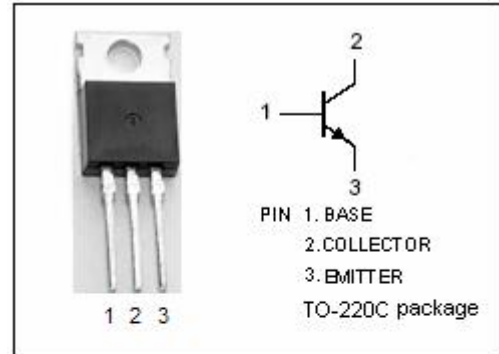


isc Silicon NPN Power Transistors
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DESCRIPTION

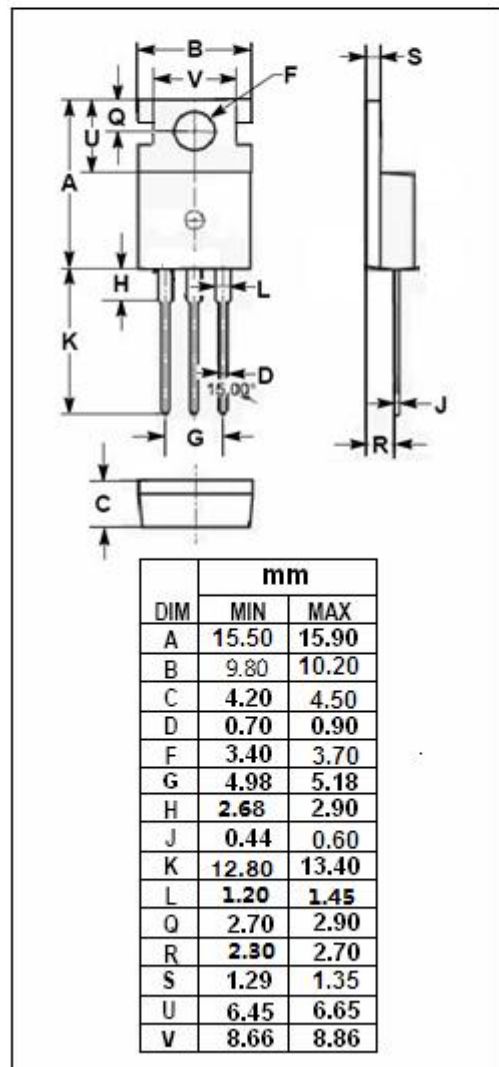
- Collector-Emitter Sustaining Voltage-
: $V_{CEO(SUS)} = 90V(\text{Min})$
- High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for fast switching applications such as high frequency and efficiency converters, switching regulators and motor control.


ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	180	V
V_{CEO}	Collector-Emitter Voltage	90	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	14	A
I_{CM}	Collector Current-Peak	25	A
I_B	Base Current-Continuous	4	A
I_{BM}	Base Current-Peak	6	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	65	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^\circ\text{C}$


THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.92	$^\circ\text{C/W}$

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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 10mA ; I _B = 0	90			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 12A; I _B = 1.2A			1.5	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 0.6A			0.6	V
V _{BE(sat)-1}	Base-Emitter Saturation Voltage	I _C = 12A; I _B = 1.2A			2.0	V
V _{BE(sat)-2}	Base-Emitter Saturation Voltage	I _C = 6A; I _B = 0.6A			1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} =180V; I _E =0			1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C =0			1.0	mA

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