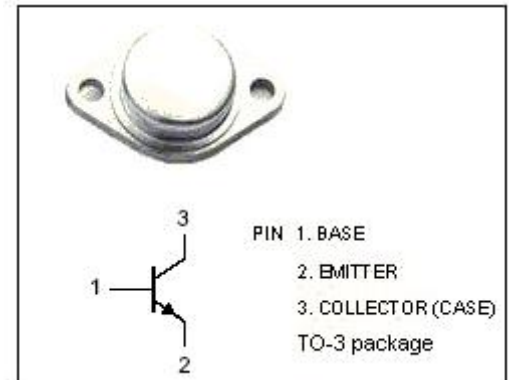


isc Silicon NPN Power Transistor
2SC3214
DESCRIPTION

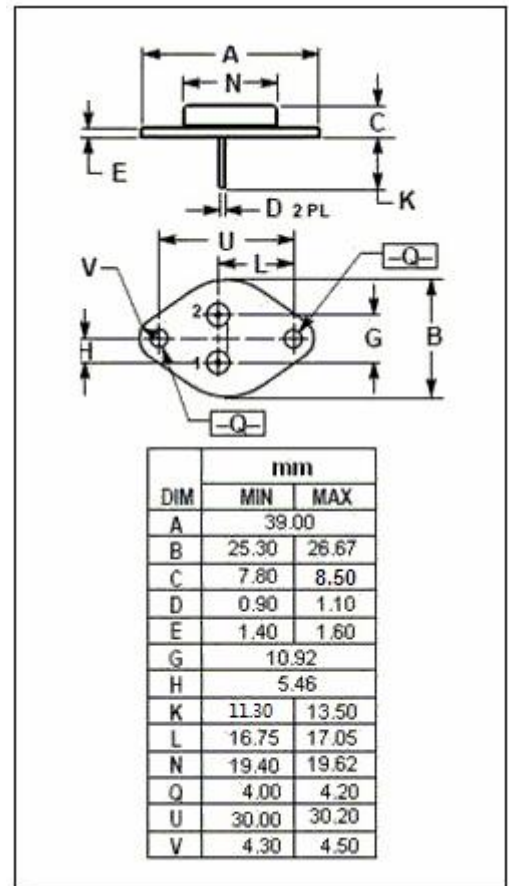
- High Collector-Emitter Sustaining Voltage-
: $V_{CEO(SUS)} = 800V$ (Min)
- High Switching Speed
- Large safe operating area
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for switching regulators, Motor controls, Ultrasonic Oscillators.


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

SYMBOL	PARAMETER	MAX	UNIT
V_{CBO}	Collector-Base Voltage	1200	V
V_{CEO}	Collector-Emitter Voltage	800	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current-Continuous	5	A
P_C	Collector Power Dissipation @ $T_c = 25^\circ C$	80	W
T_j	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-45~150	$^\circ C$



isc Silicon NPN Power Transistor

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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	800			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 10mA; I _C = 0	7			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2.5A; I _B = 1.0A			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 1.0A			1.5	V
h _{FE-1}	DC Current Gain	I _C = 1.0A; V _{CE} = 5V		20		
I _{CBO}	Collector Cutoff Current	V _{CB} = 1200V; I _E = 0			0.1	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 800V; R _{BE} = ∞			0.1	mA

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