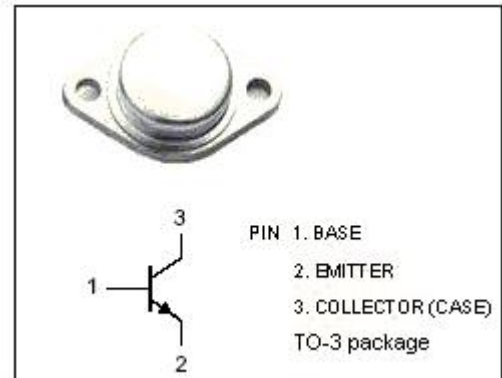


isc Silicon NPN Power Transistor
2SC2616
DESCRIPTION

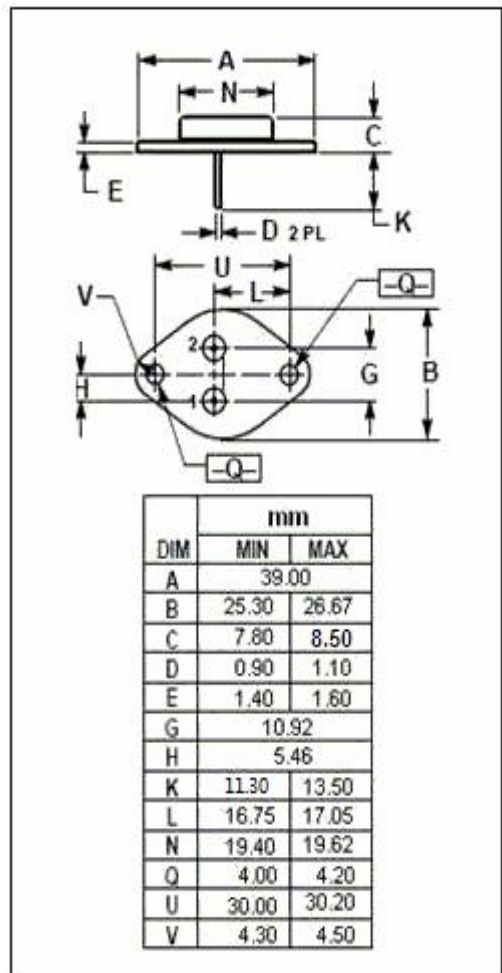
- High Collector-Emitter Sustaining Voltage-
: $V_{CEO(SUS)} = 400V$ (Min)
- High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for high voltage, high speed and high power switching applications.


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

SYMBOL	PARAMETER	MAX	UNIT
V_{CBO}	Collector-Base Voltage	500	V
V_{CEO}	Collector-Emitter Voltage	400	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current-Continuous	10	A
I_{CM}	Collector Current-Peak	20	A
I_B	Base Current-Continuous	5	A
P_C	Collector Power Dissipation @ $T_c = 25^\circ C$	100	W
T_j	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



isc Silicon NPN Power Transistor

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ELECTRICAL CHARACTERISTICST_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B =0	400			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.2	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.7	V
h _{FE-1}	DC Current Gain	I _C = 5A; V _{CE} = 5V	15			
h _{FE-2}	DC Current Gain	I _C = 10A; V _{CE} = 5V	7			
I _{CBO}	Collector Cutoff Current	V _{CB} = 400V; I _E = 0			0.1	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 350V; R _{BE} = ∞			0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	mA

Switching Times

t _r	Rise Time	I _C = 10A; I _{B1} = -I _{B2} = 2A, V _{CC} ≈ 150V			1.0	μs
t _{stg}	Storage Time				2.5	μs
t _f	Fall Time				1.0	μs

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