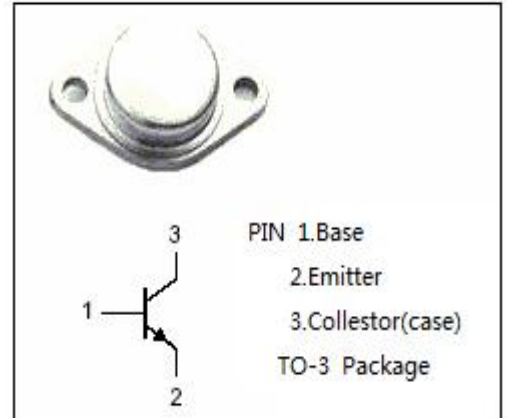


isc Silicon NPN Power Transistor
2SD1185
DESCRIPTION

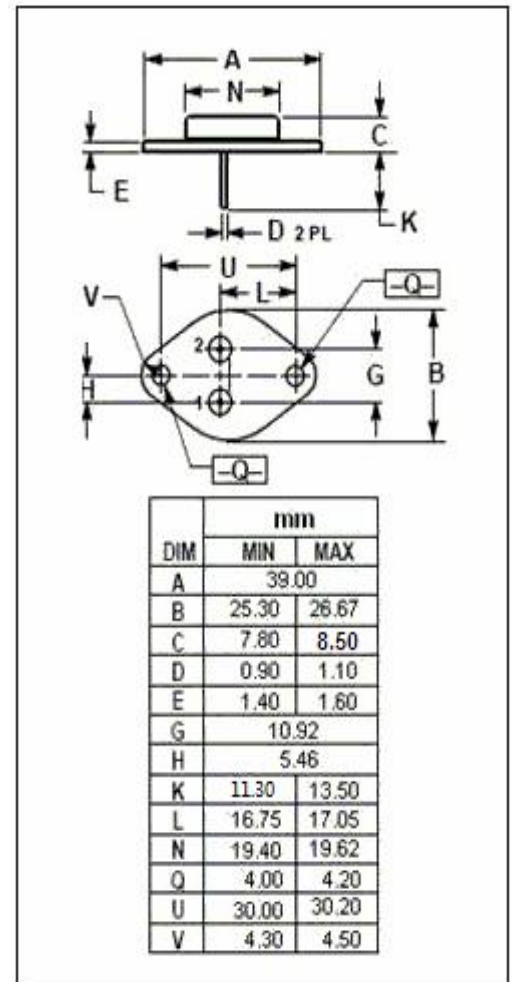
- High Breakdown Voltage-
: $V_{CBO} = 1200V$ (Min)
- High Reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for power switching applications.


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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1200	V
V_{CEO}	Collector-Emmitter Voltage	800	V
V_{EBO}	Emmitter-Base Voltage	6	V
I_C	Collector Current- Continuous	5	A
I_{CP}	Collector Current-Peak	7	A
P_C	Collector Power Dissipation @ $T_c T_c=25^\circ C$	50	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-45~150	$^\circ C$



isc Silicon NPN Power Transistor

2SD1185

ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; R _{BE} = ∞	800			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 = 0.8A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8A			1.5	V
I _{CES}	Collector Cutoff Current	V _{CE} = 1200V; R _{BE} = 0			0.5	mA
h _{FE}	DC Current Gain	I _C = 0.3A; V _{CE} = 5V	10		30	
t _f	Fall Time	I _C = 4A, I _{B1} = 0.8A, I _{B2} = 2A			1.0	μs
t _{stg}	Storage Time			1.0		μs

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