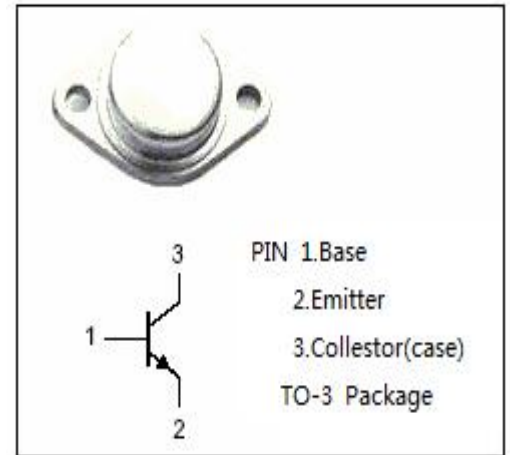


isc Silicon NPN Power Transistor
2SD380
DESCRIPTION

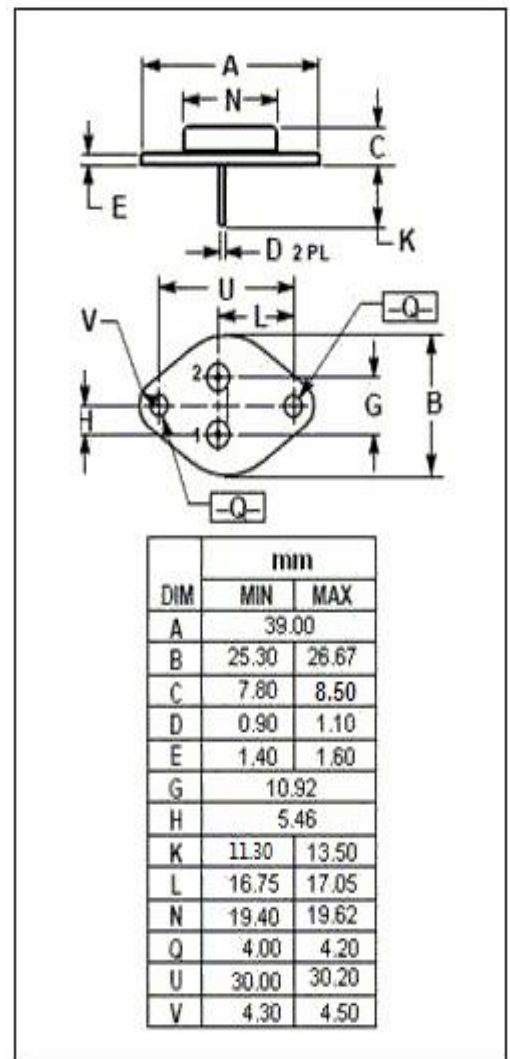
- High Breakdown Voltage-
: $V_{CBO} = 1500V$ (Min)
- High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for line-operated horizontal deflection output applications.


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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1500	V
V_{CES}	Collector-Emitter Voltage	1500	V
V_{CEO}	Collector-Emitter Voltage	700	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current- Continuous	5	A
I_{CM}	Collector Current-Peak	7	A
I_{BM}	Base Current-Peak	3.5	A
P_C	Collector Power Dissipation @ $T_c \leq 75^\circ C$	50	W
T_J	Junction Temperature	130	$^\circ C$
T_{stg}	Storage Temperature Range	-65~130	$^\circ C$



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 _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			10	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.6	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 750V ; I _E = 0			100	μ A
		V _{CB} = 1500V ; I _E = 0			1	mA
h _{FE}	DC Current Gain	I _C = 5A ; V _{CE} = 10V	5		15	
t _f	Fall Time	I _C = 5A, I _{Bend} = 1.5A, L _B = 5 μ H			0.9	μ s
t _{stg}	Storage Time			11		μ s

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