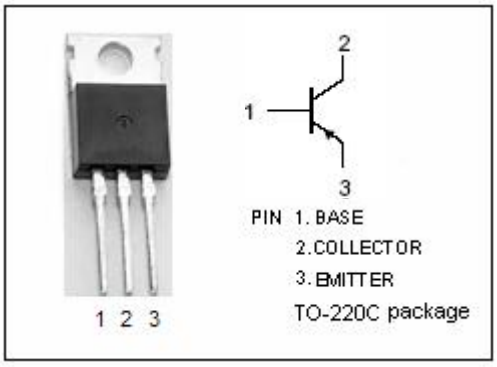
isc Silicon PNP Power Transistor — MJE5852

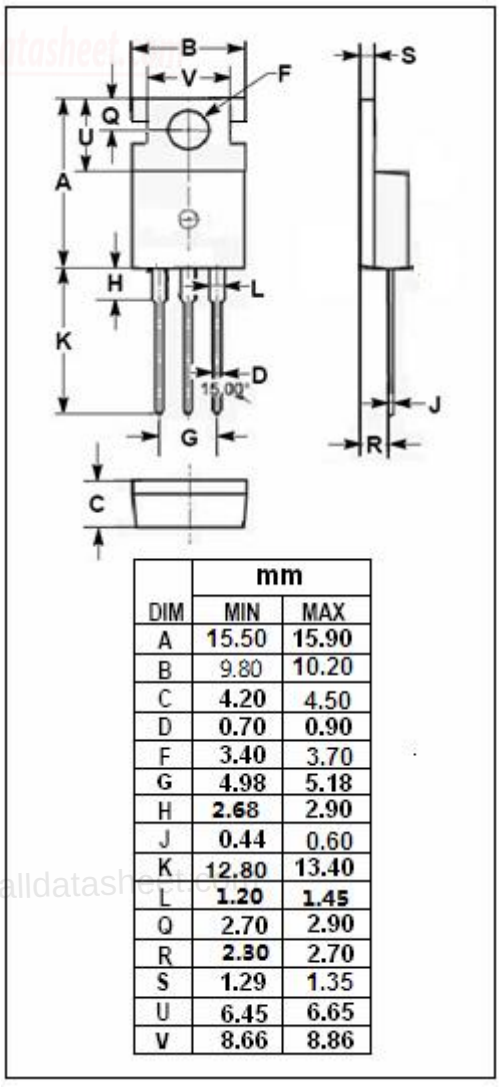
DESCRIPTION

- Collector-Emitter Breakdown Voltage
  : V_{CEO}= -400V(Min)
- Low Collector-Emitter Saturation Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Switching Regulators
- Inverters
- Solenoid and relay drivers
- Motor control



DIM	mm MIN	mm MAX
A	15.50	15.90
B	9.80	10.20
C	4.20	4.50
D	0.70	0.90
F	3.40	3.70
G	4.98	5.18
H	2.68	2.90
J	0.44	0.60
K	12.80	13.40
L	1.20	1.45
Q	2.70	2.90
R	2.30	2.70
S	1.29	1.35
U	6.45	6.65
V	8.66	8.86

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CEV}	Collector-Base Voltage	-450	V
$V_{CEO(SUS)}$	Collector-Emitter Voltage	-400	V
V_{EBO}	Emitter-Base Voltage	-6.0	V
I_C	Collector Current-Continuous	-8.0	A
I_B	Base Current- Continuous	-4.0	A
P_C	Collector Power Dissipation @T_C=25℃	80	W
T_j	Junction Temperature	-65~150	℃
T_{stg}	Storage Temperature Range	-65~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	1.25	℃/W

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Breakdown Voltage	I_C= -10mA, I_B= 0	-400		V
I_{CEV}	Collector Cutoff Current	V_{CEV}= -450V,Tc=25℃ Tc=100℃		-0.5 -2.5	mA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -6V; I_C= 0		-1.0	mA
h_{FE}	DC Current Gain	I_C= -2A; V_{CE}= -5V I_C= -5A; V_{CE}= -5V	15 5		
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -4A; I_B= -1A		-2.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= -4A; I_B= -1A		-1.5	V

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