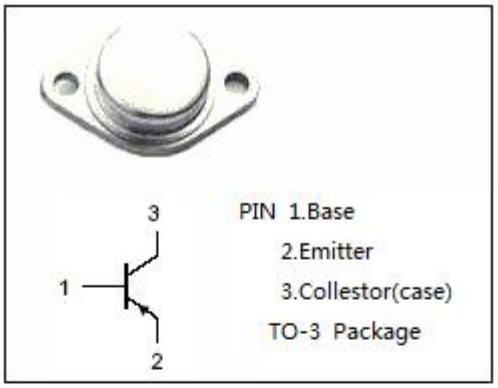
isc Silicon PNP Power Transistors 2SB552

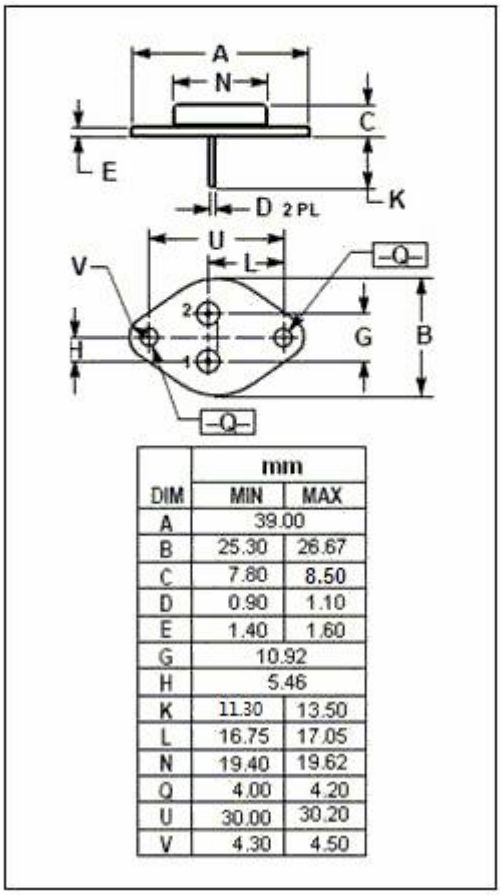
DESCRIPTION

- Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= -180V(Min)
- High Power Dissipation-
  : P_C= 150W(Max)@T_C=25℃
- Complement to Type 2SD552
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- High power amplifier applications.
- High power switching applications.
- DC-DC converter and regulator applications.



DIM	mm MIN	MAX
A	39.00	
B	25.30	26.67
C	7.80	8.50
D	0.90	1.10
E	1.40	1.60
G	10.92	
H	5.46	
K	11.30	13.50
L	16.75	17.05
N	19.40	19.62
Q	4.00	4.20
U	30.00	30.20
V	4.30	4.50

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-220	V
V_{CEO}	Collector-Emitter Voltage	-180	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-15	A
I_B	Base Current-Continuous	-3	A
P_C	Collector Power Dissipation @T_C=25℃	150	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-65~150	℃

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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= -50mA; I_B= 0	-180			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -10A; I_B= -1A			-2.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	I_C= -10A; I_B= -1A			-2.5	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -150V; I_E= 0			-0.1	mA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -5V; I_C= 0			-1.0	mA
h_{FE-1}	DC Current Gain	I_C= -5A; V_{CE}= -5V	25		80	
h_{FE-2}	DC Current Gain	I_C= -15A; V_{CE}= -5V	10			
C_{OB}	Output Capacitance	I_E= 0; V_{CB}= -50V; f= 1MHz		300		pF
f_T	Current-Gain—Bandwidth Product	I_C= -1A; V_{CE}= -10V		3.5		MHz

◆ **h_{FE-1} Classifications**

BN	R
25-50	40-80

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