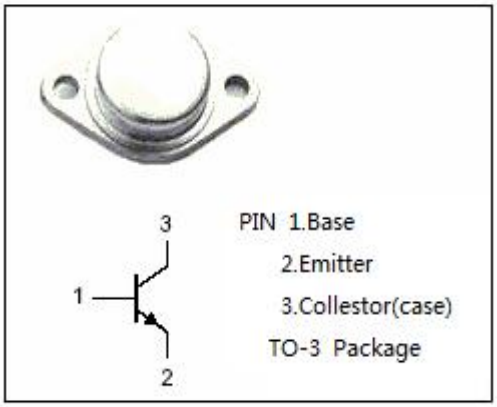
isc Silicon NPN Power Transistor 2SD555



DESCRIPTION

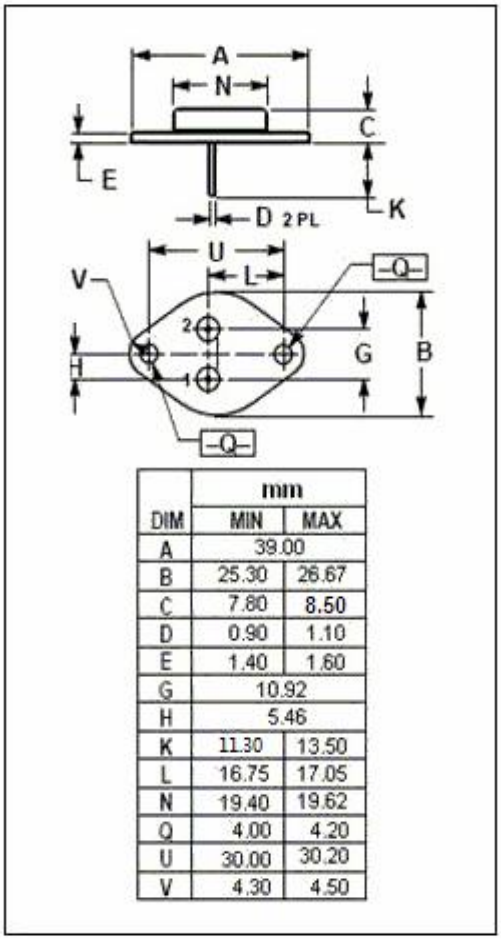
- Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= 200V (Min)
- High Power Dissipation
- Complement to Type 2SB600
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for high speed, high current and high power applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	MAX	UNIT
V_{CBO}	Collector-Base Voltage	250	V
V_{CEO}	Collector-Emitter Voltage	200	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	10	A
P_C	Collector Power Dissipation @T_C=25℃	200	W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~200	℃



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

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 10A; I_B= 1A			3.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= 10A; I_B= 1A			3.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 200V; I_E= 0			0.1	mA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 3V; I_C= 0			0.1	mA
h_{FE-1}	DC Current Gain	I_C= 50mA; V_{CE}= 5V	20	50		
h_{FE-2}	DC Current Gain	I_C= 2A; V_{CE}= 5V	40	70	200	
C_{OB}	Output Capacitance	I_E= 0; V_{CB}= 10V; f_{test}= 1.0MHz		300		pF
f_T	Current-Gain—Bandwidth Product	I_C= 1A; V_{CE}= 10V		7		MHz

◆ **h_{FE-2} Classifications**

S	R	Q
40-80	60-120	100-200

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