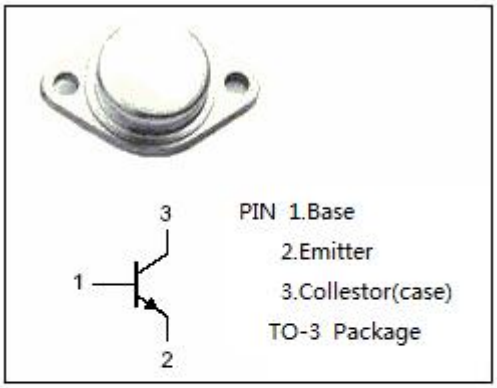
isc Silicon NPN Power Transistor 2SD534

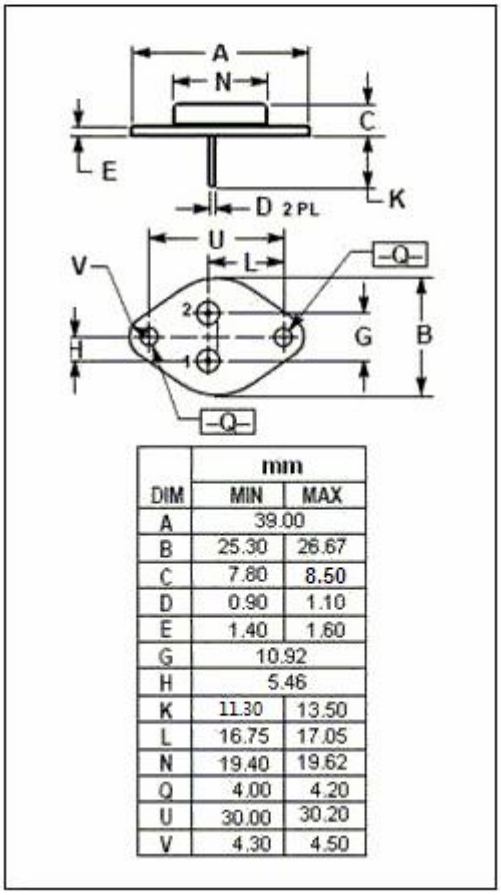


DESCRIPTION

- Collector-Emitter Sustaining Voltage-
  : $V_{CEO(SUS)}$ = 110V(Min)
- Excellent Safe Operating Area
- High Current Capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for relay drivers , high-speed inverters,converters,and other general high-current switching 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	110	V
V_{CEO}	Collector-Emitter Voltage	110	V
V_{EBO}	Emitter-Base Voltage	8	V
I_C	Collector Current-Continuous	12	A
I_{CM}	Collector Current-Peak	15	A
P_C	Collector Power Dissipation @ T_C=25℃	100	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-65~150	℃

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	I_C= 30mA ;I_B= 0	110			V
$V_{CE(sat)-1}$	Collector-Emitter Saturation Voltage	I_C= 6A; I_B= 0.6A			0.5	V
$V_{CE(sat)-2}$	Collector-Emitter Saturation Voltage	I_C= 10A; I_B= 1A			1.2	V
$V_{BE(sat)-1}$	Base-Emitter Saturation Voltage	I_C= 6A; I_B= 0.6A			1.0	V
$V_{BE(sat)-2}$	Base-Emitter Saturation Voltage	I_C= 10A; I_B= 1A			1.5	V
I_{CBO}	Collector Cutoff Current	V_{CB}=110V; I_E=0			0.1	mA
I_{EBO}	Emitter Cutoff current	V_{EB}=7V; I_C=0			0.1	mA
h_{FE-1}	DC Current Gain	I_C= 1A ; V_{CE}= 2V	60		200	
h_{FE-2}	DC Current Gain	I_C= 5A ; V_{CE}= 5V	30		120	
f_T	Current-Gain—Bandwidth Product	I_C= 0.5 A;V_{CE}= 10V;f_{test} = 1MHz	5			MHz