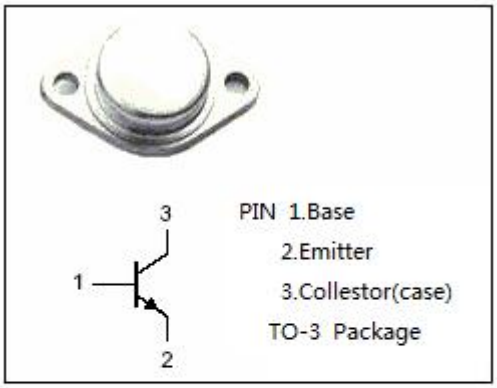
isc Silicon NPN Power Transistor 2N6573

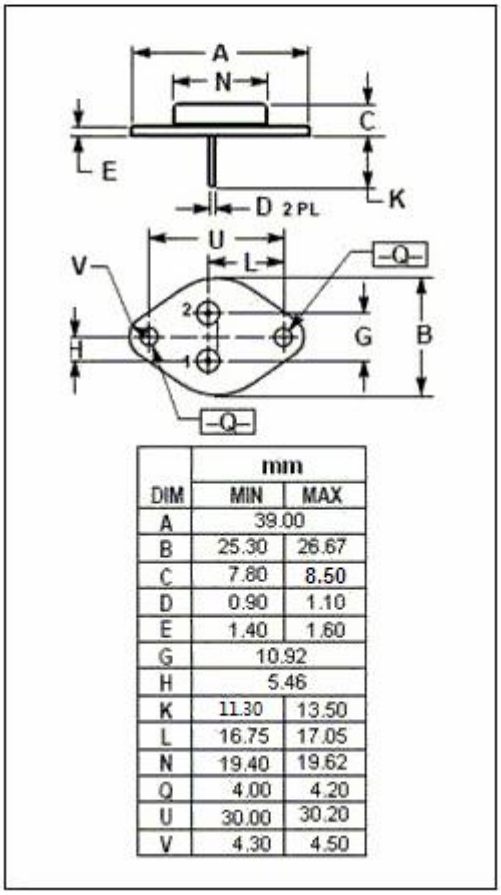


DESCRIPTION

- Collector-Emitter Sustaining Voltage-
  : V_{CEO} = 250V(Min.)
- Fast Switching Speed
- High Current Capability
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for converters, inverters, pulse-width- modulated regulators and a variety of power switching circuits.



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	500	V
V_{CEO}	Collector-Emitter Voltage	250	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	10	A
P_C	Collector Power Dissipation@T_C=25℃	125	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-65~150	℃

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C=3A; I_B= 0.3A		1	V
$V_{BE(on)}$	Base-Emitter On Voltage	I_C= 7A; V_{CE}=3V		1.4	V
I_{EBO}	Emitter Cutoff Current	V_{EB}= 8V; I_C= 0		0.1	mA
I_{CBO}	Collector Base Cutoff Current	V_{CB}=500V; I_E= 0		0.1	mA
h_{FE-1}	DC Current Gain	I_C=3A; V_{CE}=3V	20	60	
h_{FE-2}	DC Current Gain	I_C= 7A; V_{CE}= 3V	7	21	
f_T	Current Gain-Bandwidth Product	I_C= 1A; V_{CE}= 10V	5		MHz
Switching times					
T_{on}	On Time	I_C= 7A; I_B=1.4A,		1	μs
t_{off}	Off Time			3.2	μs

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