查询2N4912供应商 捷多邦，专业PCB打样工厂，24小时加急出货

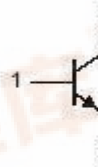
isc Silicon NPN Power Transistor 2N4912

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
  : $V_{CEO(SUS)}$= 80V(Min)
- Low Collector Saturatioin Voltage-
  : $V_{CE(sat)}$= 0.6V(Max.)@ I_C= 1A
- Wide Area of Safe Operation
- Complement to Type 2N4900

APPLICATIONS

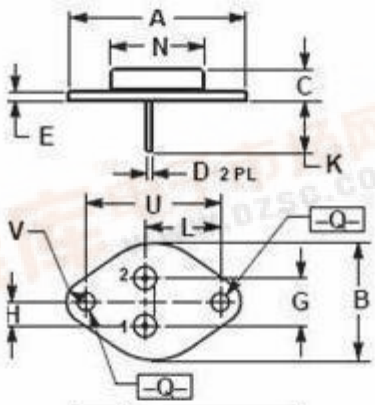
- Designed for driver circuits, switching and amplifier applications.



PIN 1. BASE
2. EMITTER
3. COLLECTOR (CASE)
TO-66 package

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	80	V
V_{CEO}	Collector-Emitter Voltage	80	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	1	A
I_{CM}	Collector Current-Peak	4	A
I_B	Collector Current-Continuous	1	A
P_C	Collector Power Dissipation @ T_C=25℃	25	W
T_J	Junction Temperature	200	℃
T_{stg}	Storage Temperature Range	-65~200	℃



DIM	mm MIN	mm MAX
A	31.40	31.80
B	17.30	17.70
C	6.70	7.10
D	0.70	0.90
E	1.40	1.60
G	5.08	
H	2.54	
K	9.80	10.20
L	14.70	14.90
N	12.40	12.60
Q	3.60	3.80
U	24.30	24.50
V	3.50	3.70

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	7.0	℃/W

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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= 100mA; I_B= 0	80			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 1A; I_B= 0.1A			0.6	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= 1A; I_B= 0.1A			1.3	V
$V_{BE(on)}$	Base-Emitter On Voltage	I_C= 1A ; V_{CE}= 1V			1.3	V
I_{CEX}	Collector Cutoff Current	V_{CE}= 80V;$V_{BE(off)}$= 1.5V V_{CE}= 80V;$V_{BE(off)}$= 1.5V;T_C=150℃			0.1 1.0	mA
I_{CEO}	Collector Cutoff Current	V_{CE}= 40V; I_B= 0			0.5	mA
I_{CBO}	Collector Cutoff Current	V_{CB}= 60V; 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= 50mA ; V_{CE}= 1V	40			
h_{FE-2}	DC Current Gain	I_C= 500mA ; V_{CE}= 1V	20		100	
h_{FE-3}	DC Current Gain	I_C= 1A ; V_{CE}= 1V	10			
f_T	Current-Gain—Bandwidth Product	I_C= 0.25A;V_{CE}= 10V, f_{test}= 1MHz	3			MHz
C_{OB}	Output Capacitance	I_E= 0;V_{CB}= 10V; f_{test}= 100kHz			100	pF