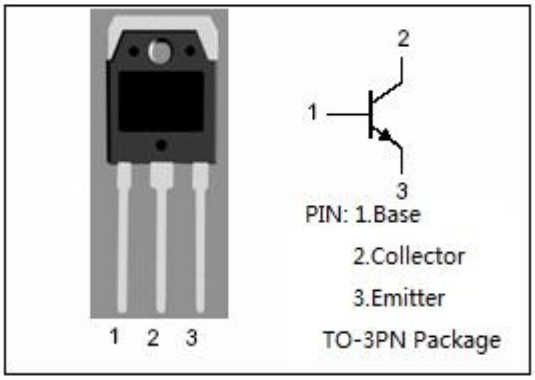
isc Silicon NPN Power Transistor — 2SD917



DESCRIPTION

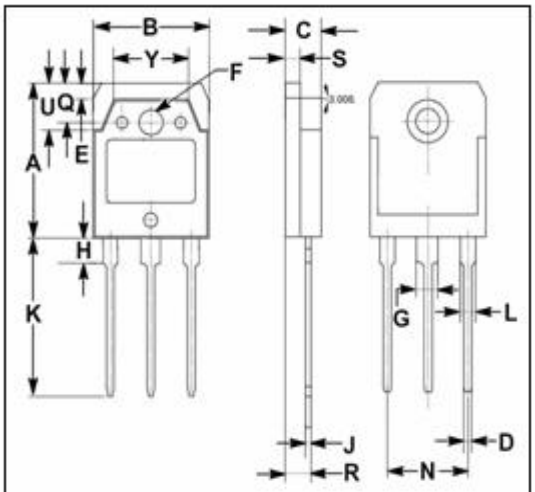
- High Collector-Base Breakdown Voltage-
  : $V_{(BR)CBO}$= 330V(Min)
- High Power Dissipation
- High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for horizontal deflection output applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	330	V
V_{CEO}	Collector-Emitter Voltage	200	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	7	A
I_{CP}	Collector Current-Pulse	10	A
I_{CP}	Collector Current-Pulse Nonrepetitive	15	A
P_C	Collector Power Dissipation @ T_C=25℃	70	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	MAX
A	19.60	20.30
B	15.50	15.70
C	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
H	3.20	3.40
J	0.595	0.605
K	19.80	20.70
L	1.90	2.20
N	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.20
Y	9.90	10.10

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= 10mA ; I_B= 0	200			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 5A; I_B= 0.5A			1.0	V
$V_{BE(sat)}$	Base -Emitter Saturation Voltage	I_C= 5A; I_B= 0.5A			1.2	V
I_{CES}	Collector Cutoff Current	V_{CE}= 330V ; V_{BE}= 0			1	mA
		V_{CE}= 300V; V_{BE}= 0, T_a= 100℃			15	
I_{EBO}	Emitter Cutoff Current	V_{EB}= 6V; I_C= 0			1	mA
h_{FE}	DC Current Gain	I_C= 5A ; V_{CE}= 4V	15		45	
t_f	Fall Time	I_C= 5A ,R_B= 0.5Ω, I_{B1}= 0.8A,V_{EB}= 5V			0.75	μs

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