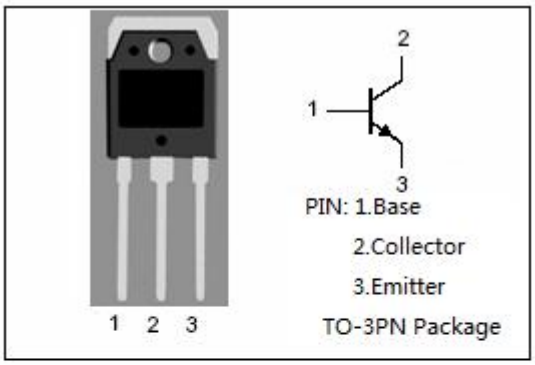
isc Silicon NPN Power Transistor — ET206



DESCRIPTION

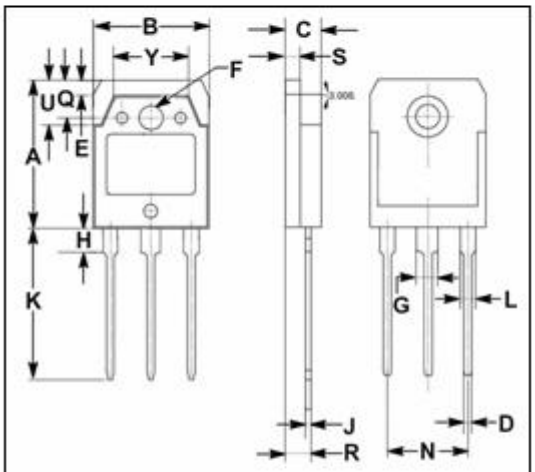
- High Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= 500V(Min)
- High Switching Speed

APPLICATIONS

- Switching regulator and high voltage switching applications.
- High frequency inverters
- General purpose power amplifiers

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	850	V
V_{CEO}	Collector-Emitter Voltage	500	V
V_{EBO}	Emitter-Base voltage	10	V
I_C	Collector Current-Continuous	10	A
I_B	Base Current-Continuous	3	A
P_C	Collector Power Dissipation @ T_C=25℃	80	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	500			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= 1mA ; I_E= 0	850			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 4A; I_B= 800mA			1.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= 4A; I_B= 800mA			1.2	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 850V ; I_E=0			1.0	mA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 10V; I_C=0			1.0	mA
h_{FE}	DC Current Gain	I_C= 1A ; V_{CE}= 5V	15			
Switching times						
t_{on}	Rise Time	I_C= 2A, I_{B1}= 200mA; I_{B2}= -400mA; R_L= 150Ω ;P_W=20μs Duty Cycle≤2%			1.0	μs
t_{stg}	Storage Time				3.5	μs
t_f	Fall Time				1.0	μs