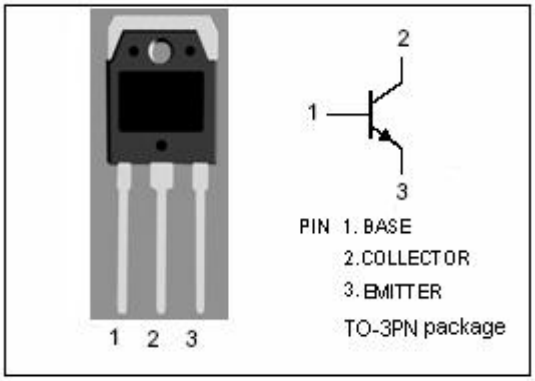
isc Silicon NPN Power Transistor — 2SC3466



DESCRIPTION

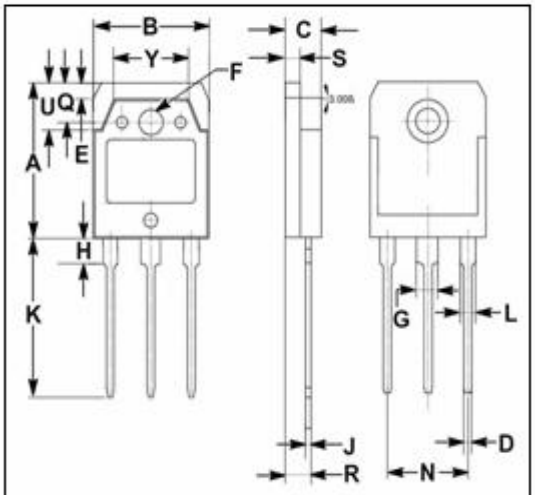
- High Breakdown Voltage-
  : $V_{(BR)CBO}$= 1200V(Min)
- Fast Switching Speed
- Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for switching regulator Applications

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1200	V
V_{CEO}	Collector-Emitter Voltage	650	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current-Continuous	8	A
I_{CM}	Collector Current-Peak	20	A
I_B	Base Current-Continuous	3	A
P_C	Collector Power Dissipation @ T_C=25℃	120	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	mm MAX
A	19.60	20.10
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	20.00	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	6.10
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= 5mA; R_{BE}= ∞	650			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= 1mA; I_E= 0	1200			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= 1mA; I_C= 0	7			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 4A; I_B= 0.8A			3.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= 4A; I_B= 0.8A			1.5	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 650V; I_E=0			100	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 5V; I_C=0			100	μA
h_{FE-1}	DC Current Gain	I_C= 1A; V_{CE}= 5V	10		40	
h_{FE-2}	DC Current Gain	I_C= 4A; V_{CE}= 5V	6			
C_{OB}	Output Capacitance	I_E= 0; V_{CB}= 10V; f_{test}=1.0MHz		120		pF
f_T	Current-Gain—Bandwidth Product	I_C= 1A; V_{CE}= 10V		5		MHz
Switching times						
t_{on}	Turn-on Time	I_C= 4A , I_{B1}= 0.8A; I_{B2}= -1.6A R_L= 50Ω ; V_{CC}=200V			1.0	μs
t_{stg}	Storage Time				4.0	μs
t_f	Fall Time				0.7	μs

◆ **h_{FE-1} Classifications**

K	L	M
10-20	15-30	20-40