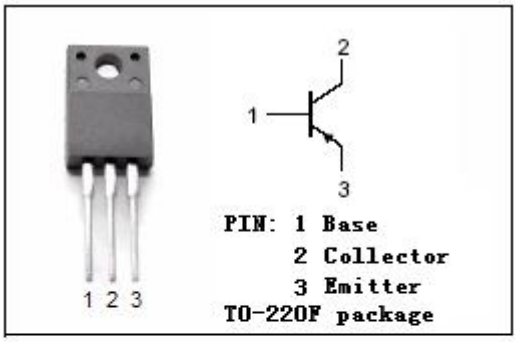
isc Silicon PNP Power Transistor — 2SB1468

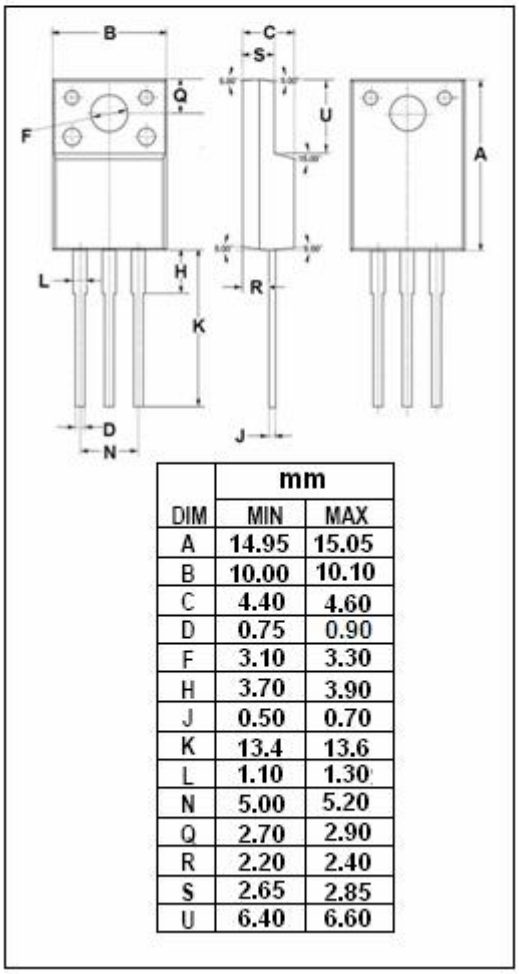
DESCRIPTION

- Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= -30V(Min)
- Low Collector Saturation Voltage-
  : $V_{CE(sat)}$= −0.5V(Max)@ (I_C= -5A, I_B= -0.25A)
- Complement to Type 2SD2219
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Designed for high-speed inverters,converters.



DIM	mm MIN	MAX
A	14.95	15.05
B	10.00	10.10
C	4.40	4.60
D	0.75	0.90
F	3.10	3.30
H	3.70	3.90
J	0.50	0.70
K	13.4	13.6
L	1.10	1.30
N	5.00	5.20
Q	2.70	2.90
R	2.20	2.40
S	2.65	2.85
U	6.40	6.60

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-30	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-12	A
I_{CM}	Collector Current-Pulse	-20	A
P_C	Collector Power Dissipation @T_a=25℃	2	W
	Collector Power Dissipation @T_C=25℃	25	
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~150	℃

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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= -1mA; R_{BE}= ∞	-30			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= -1mA; I_E= 0	-60			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= -1mA; I_C= 0	-6			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -5A; I_B= -0.25A			-0.5	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -40V; I_E= 0			-100	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -4V; I_C= 0			-100	μA
h_{FE-1}	DC Current Gain	I_C= -1A; V_{CE}= -2V	70		280	
h_{FE-2}	DC Current Gain	I_C= -6A; V_{CE}= -2V	30			
Switching Times						
t_{on}	Turn-on Time	V_{CC}= -10V, R_L= 2Ω, I_C= -5A;I_{B1}= -I_{B2}= -0.5A,		0.1		μs
t_{stg}	Storage Time			0.3		μs
t_f	Fall Time			0.03		μs

◆ **h_{FE-1} Classifications**

Q	R	S
70-140	100-200	140-280

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