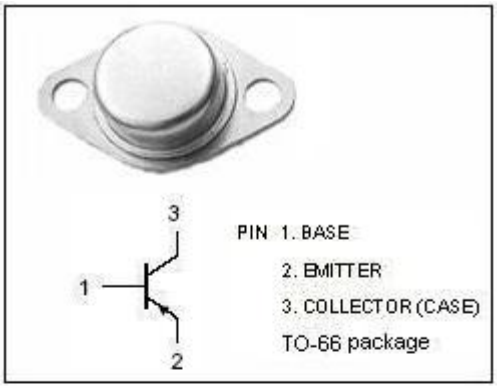
isc Silicon PNP Power Transistor — 2SA765

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= -80V(Min)
- Low Collector Saturation Voltage-
  : $V_{CE(sat)}$= 1.5V(Max.)@ I_C= 4A
- Complement to Type 2SC1445
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

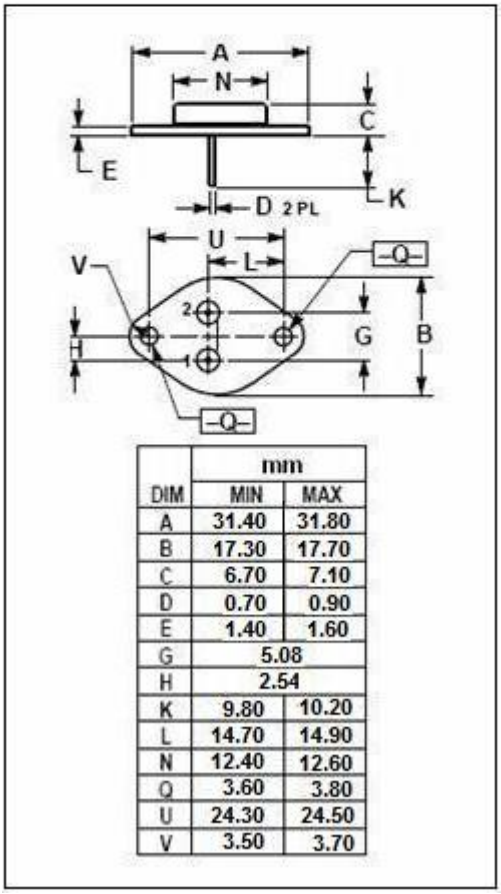


APPLICATIONS

- Designed for general purpose power amplifier applications

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	-6	V
I_C	Collector Current-Continuous	-6	A
P_C	Total Power Dissipation @ T_C=25℃	40	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	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

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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	-80			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= -1mA; I_E= 0	-80			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -4A; I_B= -0.4A			-1.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= -4A; I_B= -0.4A			-2.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -80V; I_E= 0			-10	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -6V; I_C= 0			-10	μA
h_{FE}	DC Current Gain	I_C= -1A; V_{CE}= -4V	50			
f_T	Current-Gain—Bandwidth Product	I_C= -0.5A; V_{CE}= -12V		10		MHz

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