

isc Silicon NPN Power Transistor

DESCRIPTION

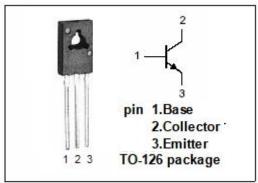
- High Collector Current-I_C= 3.0A
- · Low Saturation Voltage -
 - : $V_{CE(sat)}$ = 0.5V(Max)@ I_{C} = 2.0A, I_{B} = 0.2A
- Good Linearity of hFE
- Complement to Type 3CA772
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

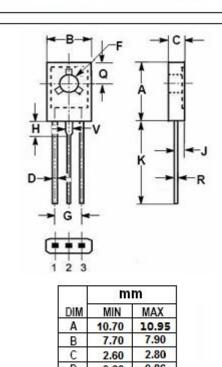
APPLICATIONS

 Suited for the output stage of 3 watts audio amplifier, voltage regulator, DC-DC converter and relay driver.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	6.0	V
Ic	Collector Current-Continuous	3.0	А
Pc	Collector Power Dissipation @ T _C =25℃	10	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$





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DIM	MIN	MAX
Α	10.70	10.95
В	7.70	7.90
C	2.60	2.80
D	0.66	0.86
F	3.10	3.30
G	4.48	4.68
н	2.00	2.20
J	1.35	1.55
K	15.30	16.30
Q	3.70	3.90
R	0.40	0.60
V	1.17	1.37



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3DA882

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 0.1mA ; I _E = 0	40		
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA ; I _B =0	30		
V _{(BR)EBO}	Emitter-Base Breakdown Vltage	I _E = 0.1mA ; I _C = 0	6.0		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2.0A; I _B = 0.2A		0.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I _C = 2.0A; I _B = 0.2A		1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 40V; I _E = 0		10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0		10	μА
h _{FE-1}	DC Current Gain	I _C = 20mA ; V _{CE} = 2V	30		
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 2V	60	400	

h_{FE-2} Classifications

R	0	Y	GR
60-120	100-200	160-320	200-400

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