

isc Silicon NPN Power Transistor

2SD882

DESCRIPTION

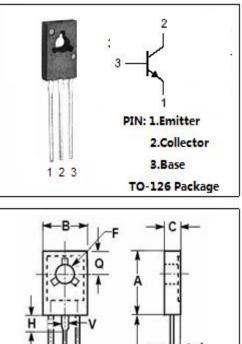
- High Collector Current-I_C= 3.0A
- Low Saturation Voltage -
 - : V_{CE(sat)}= 0.5V(Max)@ I_C= 2.0A, I_B= 0.2A
- Good Linearity of h_{FE}
- Complement to Type 2SB772
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

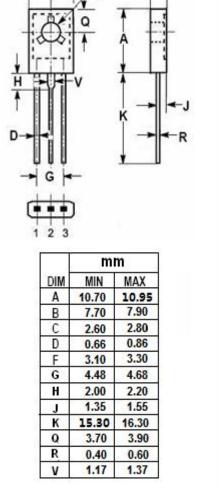
APPLICATIONS

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

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	40	v	
V _{CEO}	Collector-Emitter Voltage	30	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current-Continuous	3.0	A	
ICP	Collector Current-Pulse	7.0	A	
Pc	Collector Power Dissipation @ T _a =25℃	1.0	W	
	Collector Power Dissipation @ Tc=25℃	10		
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)







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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2.0A; I _B = 0.2A		0.3	0.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2.0A; I _B = 0.2A		1.0	2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 30V; I _E = 0			1.0	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3V; I _C = 0			1.0	μA
hfe-1	DC Current Gain	Ic= 20mA ; V _{CE} = 2V	30	150		
h _{FE-2}	DC Current Gain	I _C = 1A ; V _{CE} = 2V	60	160	400	
f _T	Current-Gain—Bandwidth Product	I _C = 0.1A ; V _{CE} = 5V		90		MHz
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V,f _{test} = 1MHz		45		pF

h_{FE-2} Classifications

R	Q	Р	E
60-120	100-200	160-320	200-400

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