

INCHANGE SEMICONDUCTOR

isc Silicon PNP Power Transistor

2SB1290

DESCRIPTION

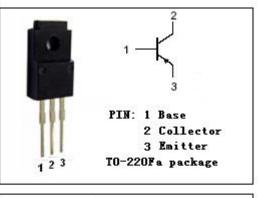
- High Collector Current:: I_C= -7A
- Low Collector Saturation Voltage
 : V_{CE(sat)}= -1.0V(Max)@I_C= -4A
- Wide Area of Safe Operation
- Complement to Type 2SD1833
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

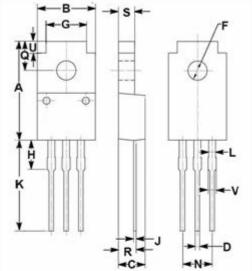
APPLICATIONS

• Designed for low frequency power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)				
SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-80	V	
V _{CEO}	Collector-Emitter Voltage	-80	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
Ic	Collector Current-Continuous	-7	А	
I _{CM}	Collector Current-Peak	-10	А	
	Total Power Dissipation @ $T_a=25^{\circ}C$	2	w	
Pc	Total Power Dissipation @ $T_c=25^{\circ}C$	30		
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)





	mm	
DIM	MIN	MAX
A	16.85	17.15
В	9.54	10.10
C	4.35	4.65
D	0.75	0.90
F	3.20	3.40
G	6.90	7.20
Н	5.15	5.45
J	0.45	0.75
Κ	13.35	13.65
L	1.10	1.30
N	4.98	5.18
Q	4.85	5.15
R	2.55	3.25
S	2.70	2.90
U	1.75	2.05
V	1.30	1.50

isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA; I _B = 0	-80			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -50 μ A; I _E = 0	-80			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -50 μ A; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -0.4A			-1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -4A; I _B = -0.4A			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-10	μA
h _{FE}	DC Current Gain	I _C = -1A; V _{CE} = -5V	60		320	
Сов	Output Capacitance	I _E =0; V _{CB} = -10V; f= 1MHz		200		pF
f⊤	Current-Gain—Bandwidth Product	I _E = 0.5A; V _{CE} = -5V		12		MHz

h_{FE} Classifications

D	E	F
60-120	100-200	160-320

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