

INCHANGE SEMICONDUCTOR

isc Silicon NPN Power Transistor

2SC3280

DESCRIPTION

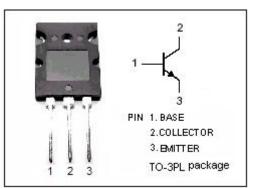
- Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 160V(Min)
- Collector-Emitter Saturation Voltage-: V_{CE(sat)}= 2.0V(Max)@ I_C= 8A
- Complement to Type 2SA1301
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

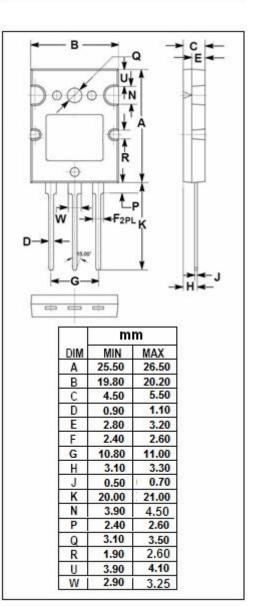
APPLICATIONS

- · Power amplifier applications
- Recommend for 80W high fidelity audio frequency amplifier output stage applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	160	V
V _{CEO}	Collector-Emitter Voltage	160	V
V _{EBO}	Emitter-Base voltage	5	V
lc	Collector Current-Continuous	12	А
I _B	Base Current-Continuous	1.2	А
Pc	Collector Power Dissipation @ T _c =25°C	120	W
TJ	Junction Temperature	150	°C
Tstg	Storage Temperature Range	-55~150	°C







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ELECTRICAL CHARACTERISTICS

Tc=25℃	unless	otherwise	specified
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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B = 0	160			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 0.8A			2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 6A; V _{CE} = 5V			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 160V; I _E = 0			5.0	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			5.0	μA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	55		160	
h _{FE-2}	DC Current Gain	I _C = 6A; V _{CE} = 5V	35			
fT	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 5V		30		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V, f _{test} = 1MHz		220		pF

h_{FE-1} Classifications

R	ο	
55-110	80-160	

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