

ISC Silicon NPN Power Transistor

DESCRIPTION

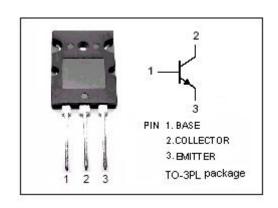
- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 160V(Min)
- · Collector-Emitter Saturation Voltage-
 - : V_{CE(sat)}= 2.0V(Max)@ I_C= 8A
- Complement to Type 2SA1301
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

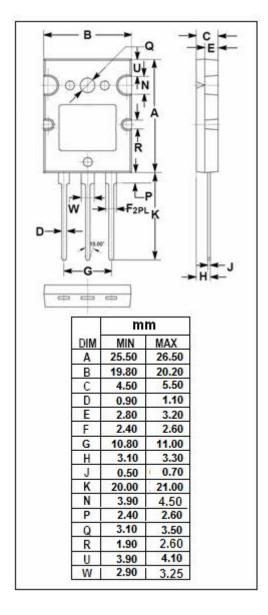
APPLICATIONS

- · 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	
Vceo	Collector-Emitter Voltage	160	V	
V _{EBO}	Emitter-Base voltage	5	V	
lc	Collector Current-Continuous	12	Α	
I _B	Base Current-Continuous	1.2	Α	
Pc	Collector Power Dissipation @ T _C =25℃	120	W	
TJ	Junction Temperature 150		$^{\circ}$	
Tstg	Storage Temperature Range -5		°C	







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2SC3280

ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	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	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			5.0	μА
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			
f⊤	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	0		
55-110	80-160		

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