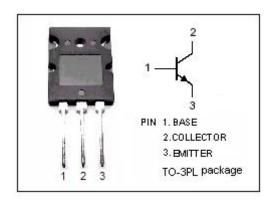


isc Silicon NPN Power Transistor

2SD2328

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 180V(Min)
- · Low Collector-Emitter Saturation Voltage-
 - : $V_{CE(sat)}$ = 3.0V(Max)@ I_{C} = 10A, I_{B} = 1A
- · High Power Dissipation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

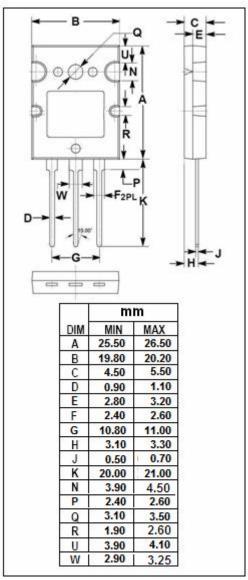


APPLICATIONS

· Power amplifier applications

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	180	V
V _{CEO}	Collector-Emitter Voltage	180	V
V _{EBO}	Emitter-Base voltage	5	V
Ic	Collector Current-Continuous	15	А
I _B	Base Current-Continuous	1.5	А
Pc	Collector Power Dissipation @ T _C =25°C	150	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	°C



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isc Silicon NPN Power Transistor

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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _(BR) CEO	Collector-Emitter Breakdown Voltage	I _C = 50mA ; I _B = 0	180			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 10A; I _B = 1A			3.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 8A ; V _{CE} = 5V			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 180V ; 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 = 8A ; 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		270		pF

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