

isc Silicon NPN Power Transistor

2SD2155

DESCRIPTION

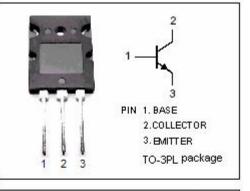
- High Current Capability
- High Power Dissipation
- High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 180V(Min)
- Complement to Type 2SB1429
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

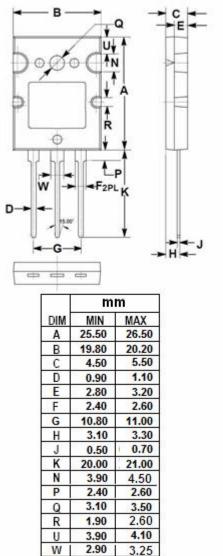
APPLICATIONS

- · Power amplifier applications
- Recommend for 100W high fidelity audio frequency amplifier output stage applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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
Ι _C	Collector Current-Continuous	15	А
IB	Base Current-Continuous	1.5	А
Pc	Collector Power Dissipation @ $T_c=25^{\circ}C$	150	W
TJ	Junction Temperature 150		°C
T _{stg}	Storage Temperature Range	-55~150	°C







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA ; I _B = 0	180			v
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8.0A; I _B = 0.8A			2.0	v
$V_{\text{BE}(on)}$	Base-Emitter On Voltage	I _C = 6A ; V _{CE} = 5V			1.5	v
Ісво	Collector Cutoff Current	V _{CB} = 180V ; I _E = 0			5	μ Α
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			5	μ Α
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	30			
Сов	Output Capacitance	I _E =0 ; V _{CB} = 10V;f _{test} = 1.0MHz		160		pF
f⊤	Current-Gain—Bandwidth Product	Ic= 1A ; Vce= 5V		10		МН

h_{FE-1} Classifications

R	ο	
55-110	80-160	

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