

ISC Silicon NPN Power Transistor

2SD657

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)} = 200V(Min)
- Excellent Safe Operating Area
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



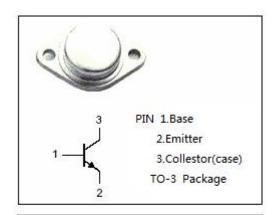
APPLICATIONS

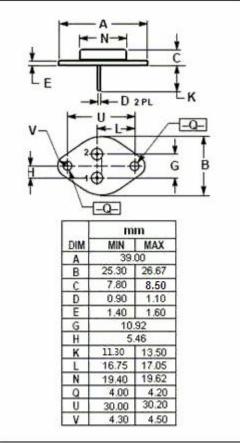
· Designed for line operated audio output amplifier, and switching power supply drivers applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	200	V
V _{CEO}	Collector-Emitter Voltage	200	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	1.5	Α
Ісм	Collector Current-Peak	3	А
Pc	Collector Power Dissipation @ Tc=25°C	50	W
TJ	Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$







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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA; I _B = 0	200		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1.0A; I _B = 0.2A		1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 1.0A; V _{CE} = 10V		1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 200V; I _E = 0		0.1	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 200V; I _B = 0		0.5	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		0.1	mA
h _{FE-1}	DC Current Gain	I _C = 0.5A; V _{CE} = 10V	40	180	
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 10V	20		

NOTICE:

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