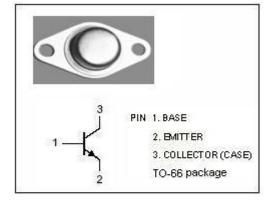


isc Silicon NPN Power Transistor

2SD157

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 300V(Min)
- · Low Collector-Emitter Saturation Voltage-
 - : V_{CE(sat)}= 2.0V(Max) @I_C= 50mA
- · Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

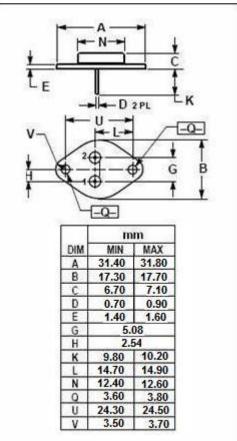


APPLICATIONS

• Designed for use in line-operated color TV chroma output circuits and sound output circuits.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{CBO}	Collector-Base Voltage	300	V	
V_{CEO}	Collector-Emitter Voltage	300	V	
V _{EBO}	Emitter-Base Voltage 7		V	
Ic	Collector Current-Continuous	100	mA	
Pc	Collector Power Dissipation @ T _c =70 °C	4	W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	





isc Silicon NPN Power Transistor

2SD157

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 5mA; I _B = 0	300			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 100 μ A; I _E = 0	300			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 100 μ A; I _C = 0	7			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 50mA; I _B =5mA			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 50mA; I _B =5mA			2.0	V
Ісво	Collector Cutoff Current	V _{CB} = 300V; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			10	μА
h _{FE}	DC Current Gain	I _C = 50mA ; V _{CE} = 10V	40		200	
h _{FE-2}	DC Current Gain	I _C = 2A; V _{CE} = 2V	20			
f⊤	Current-Gain—Bandwidth Product	I _C = 50mA; V _{CE} = 10V;f _{test} = 1.0MHz		20		MHz

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