

isc Silicon NPN Power Transistor

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
 - : $V_{CEO(SUS)} = 300V(Min)$
- DC Current Gain-
 - : h_{FE} = 30~240(Min) @ I_C= 50mA
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

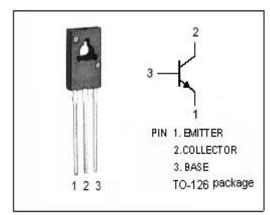
 Designed for power output stages for television, radio, phonograph and other consumer product applications.

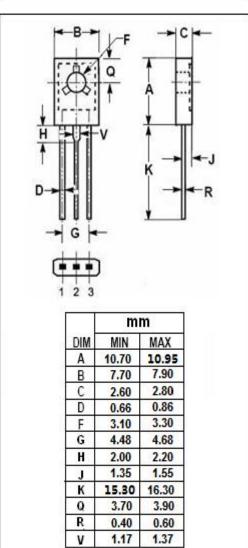
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	325	V
Vceo	Collector-Emitter Voltage	300	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	0.5	А
I _{CM}	Collector Current-Peak	1.0	Α
I _B	Base Current-Continuous	0.25	А
Pc	Collector Power Dissipation T_c =25 $^{\circ}$ C	20	W
T _i	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	6.25	°C/W







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BD158

ELECTRICAL CHARACTERISTICS

Tc =25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 1.0mA; I _B = 0	300		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 0.1mA; I _E = 0	325		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 0.1mA; I _C = 0	5		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 50mA; I _B = 5mA		1.0	٧
Ісво	Collector Cutoff Current	V _{CB} = 325V; I _E = 0		0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		0.1	mA
h _{FE}	DC Current Gain	I _C = 50m A; V _{CE} = 10V	30	240	

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