

isc Silicon NPN Power Transistor

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 250V(Min)
- · High Collector Power Dissipation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

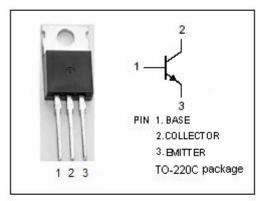


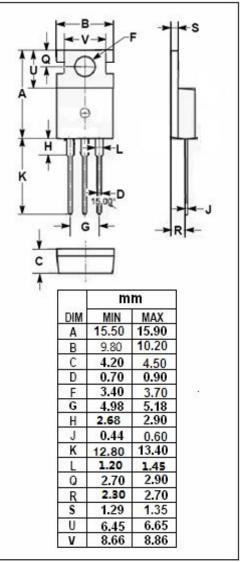
APPLICATIONS

• Designed for AF power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	350	V
Vceo	Collector-Emitter Voltage	250	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	0.75	Α
Ісм	Collector Current-Peak	1.5	А
P _C	Collector Power Dissipation @ T _C =25°C	35	W
TJ	Junction Temperature 150		$^{\circ}$
T _{stg}	T _{stg} Storage Temperature Range		$^{\circ}$







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2SD859

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	250			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.2A			1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 1A; V _{CE} = 10V			1.5	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 150V; I _B = 0			1	mA
I _{CES}	Collector Cutoff Current	V _{CE} = 350V; V _{BE} = 0			1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1	mA
h _{FE-1}	DC Current Gain	I _C = 0.3A; V _{CE} = 10V	40		250	
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 10V	10			
Switching Times						
ton	Turn-On Time	1-401 -1 -040		0.2		μS
t _{off}	Turn-Off Time	I _C = 1A; I _{B1} = I _{B2} = 0.1A		2.0		μ S

♦ h_{FE-1} Classifications

R	Q	P
40-90	70-150	120-250

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