

isc Silicon NPN Power Transistor

2SD857

DESCRIPTION

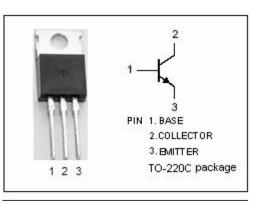
- · Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 60V(Min)
- Good Linearity of h_{FE}
- Wide Area of Safe Operation
- Complement to Type 2SB762
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

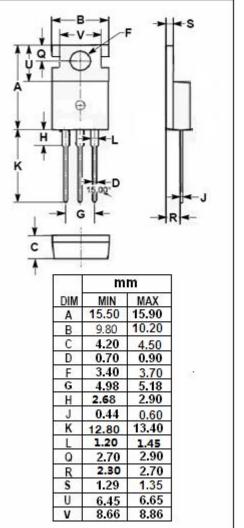
APPLICATIONS

· Designed for power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{CBO}	Collector-Base Voltage	60	V			
Vceo	Collector-Emitter Voltage	60	V			
V _{EBO}	Emitter-Base Voltage	5	V			
lc	Collector Current-Continuous	4	A			
Ісм	Collector Current-Peak	8	A			
Pc	Collector Power Dissipation @ Tc=25℃	40	W			
TJ	Junction Temperature	150	°C			
T _{stg}	Storage Temperature Range	-55~150	°C			







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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25\,^{\circ}\!\!\!^{\circ}\!\!\!^{\circ}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	60			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.4A			1.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 3A; V _{CE} = 4V			2.0	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 30V; I _B = 0			700	μA
I _{CES}	Collector Cutoff Current	V _{CE} = 60V; V _{BE} = 0			400	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1	mA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 4V	40		250	
h _{FE-2}	DC Current Gain	I _C = 3A; V _{CE} = 4V	15			

Switching Times

t _{on}	Turn-On Time		0.2	μ S
t _{off}	Turn-Off Time	— I _C = 4A; I _{B1} = I _{B2} = 0.4A	1.4	μ S

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