

ISC Silicon NPN Power Transistor

DESCRIPTION

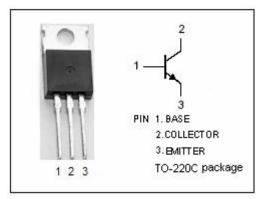
- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 100V (Min)
- Wide Area of Safe Operation
- Complement to Type 2SB860
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

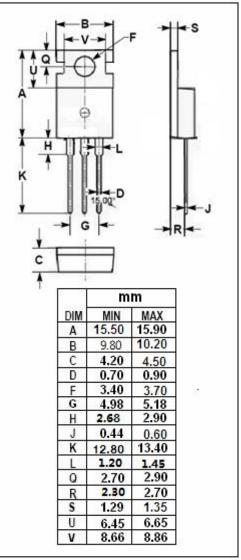
APPLICATIONS

 Designed for low frequency power amplifier TV vertical deflection output applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	100	V	
$V_{\sf CEO}$	Collector-Emitter Voltage	100	V	
V _{EBO}	Emitter-Base Voltage	4	V	
Ic	Collector Current-Continuous	4	А	
I _{CM}	Collector Current-Peak	5	А	
P _C	Collector Power Dissipation @ T _a =25℃	1.8	W	
	Collector Power Dissipation @ T _C =25°C	40		
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-45~150	$^{\circ}$	







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2SD1137

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; R _{BE} = ∞	100			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	4			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A			1.0	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 80V; R _{BE} = ∞			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3.5V; I _C = 0			50	μА
h _{FE-1}	DC Current Gain	I _C = 500mA; V _{CE} = 4V	50		250	
h _{FE-2}	DC Current Gain	I _C = 50mA; V _{CE} = 4V	25		350	

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