

isc Silicon NPN Power Transistor

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 40V(Min)
- · Low Collector-Emitter Saturation Voltage-
 - : V_{CE(sat)}= 1.0V(Max) @I_C= 3.0A
- Complement to Type 2SB435
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

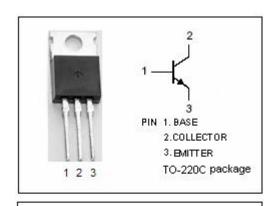
APPLICATIONS

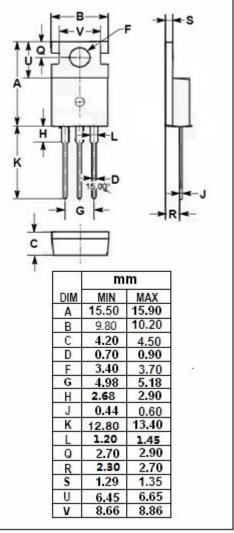


• Designed for audio power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	50	V	
V _{CEO}	Collector-Emitter Voltage	40	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current-Continuous	3.0	А	
Pc	Collector Power Dissipation @ T _a =25°C	1.5	W	
	Collector Power Dissipation @ T _c =25°C	25		
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range -55~1		$^{\circ}$	







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2SD235

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 5mA; I _B = 0	40			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	Ic= 3A; I _B = 0.3A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 40V; I _E = 0			10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μА
h _{FE}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	40		240	
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V, f _{test} = 1MHz		90		pF
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 2V		18		MHz

♦ h_{FE} Classifications

R	0	Υ
40-80	70-140	120-240

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