

isc Silicon NPN Power Transistor

DESCRIPTION

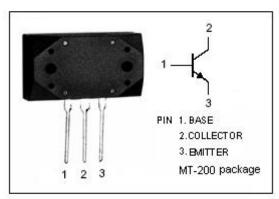
- Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= 150V(Min)
- · Good Linearity of hFE
- Complement to Type 2SB755
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

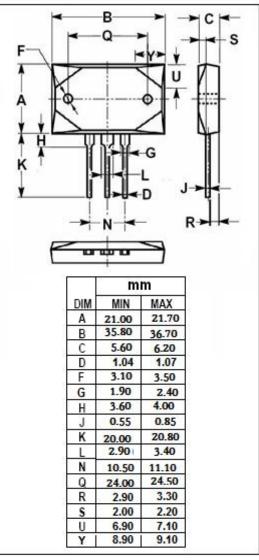


• Designed for power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	150	V
V _{CEO}	Collector-Emitter Voltage	150	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	12	А
l _E	Emitter Current-Continuous	12	А
Pc	Collector Power Dissipation @ T _C =25°C		W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	T _{stg} Storage Temperature Range -55~150		$^{\circ}$ C





1



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2SD845

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	150			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 5A; V _{CE} = 5V			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 150V; I _E = 0			50	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			50	μ A
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	55		160	
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1.0MHz		200		pF
f _T	Current-Gain—Bandwidth Product	Ic= 1A; Vc= 10V		20		MHz

♦ h_{FE} Classifications

R	0		
55-110	80-160		

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