

isc Silicon NPN Power Transistors

DESCRIPTION

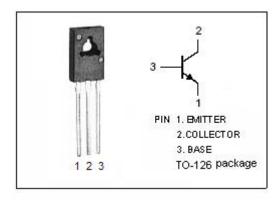
- Low Collector Saturation Voltage
- · High Power Dissipation-
 - : P_C= 10W(Max)@T_C=25°C
- Complement to Type 2SB1261-K
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

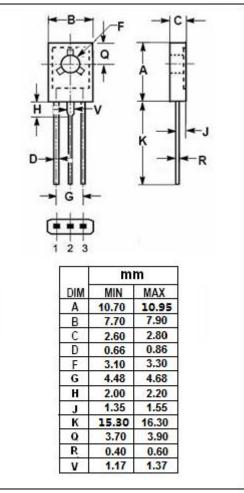


 Designed for use in audio amplifier and switching, especially in hybrid integrated circuits.



SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	60	٧
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	3	А
Pc	Collector Power Dissipation @Tc=25°C	10	W
TJ	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~150	$^{\circ}$







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2SD1899-K

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 100 μ A ; I _E = 0	60			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA; I _B = 0	60			V
V _{(BR)EBO}	Emitter-Base Breakdown Vltage	I _E = 100 μ A; I _C = 0	7			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1.5A; I _B = 0.15A			0.3	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1.5A; I _B = 0.15A			1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 60V; I _E = 0			10	μ А
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			10	μА
h _{FE1}	DC Current Gain	I _C = 0.2A; V _{CE} = 2V	60			
h _{FE}	DC Current Gain	Ic= 0.6A; V _{CE} = 2V	200		400	
h _{FE}	DC Current Gain	I _C = 2A; V _{CE} = 2V	50			
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1MHz		40		pF
f⊤	Current-Gain—Bandwidth Product	I _E = 1.5A; V _{CE} = 5V		50		MHz

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