

isc Silicon PNP Power Transistor

KSB596

DESCRIPTION

- · Low Collector Saturation Voltage
 - $V_{CE(sat)} = -1.7(V)(Max)@I_{C} = -3A$
- · Collector-Emitter Breakdown Voltage-
 - : $V_{(BR)CEO}$ = -80V(Min)
- Complement to Type KSD526
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



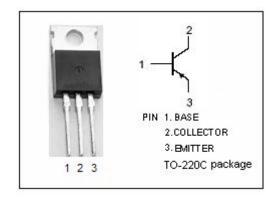
APPLICATIONS

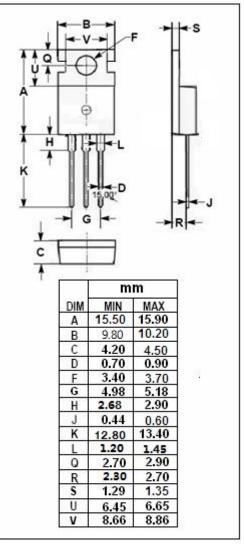
- · Power amplifier applications.
- Recommended for 20~25W high-fidelity audio frequency amplifier output stage.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	-80	V
Vceo	Collector-Emitter Voltage	-80	V
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current-Continuous	-4	А
lв	Base Current-Continuous	-0.4	A
Pc	Total Power Dissipation @ Tc=25℃	30	W
TJ	Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA; I _B = 0	-80			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -10mA; I _C = 0	-5			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -0.3A			-1.7	V
V _{BE} (on)	Base-Emitter On Voltage	I _C = -3A; V _{CE} = -5V			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-70	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-0.1	mA
h _{FE-1}	DC Current Gain	I _C = -0.5A; V _{CE} = -5V	40		240	
h _{FE-2}	DC Current Gain	Ic= -3A; Vc== -5V	15			
f⊤	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -5V	3			MHz
Сов	Collector Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		130		μF

♦ h_{FE-1} Classifications

R	0	Y
40-80	70-140	120-240

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