

isc Silicon PNP Power Transistor

KSE210

DESCRIPTION

- High Collector Current-I_C= -5A
- · Low Saturation Voltage -
 - : $V_{CE(sat)}$ = -0.3V(Max)@ I_{C} = -0.5A, I_{B} = -50mA
- Good Linearity of h_{FE}
- Complement to Type KSE200
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

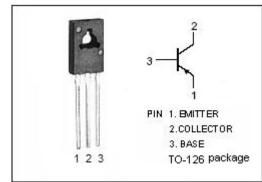


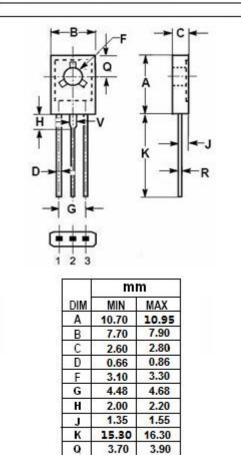
APPLICATIONS

 Suited for watts audio amplifier, voltage regulator, DC-DC converter and relay driver.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-25	V
V _{EBO}	Emitter-Base Voltage	-8	V
Ic	Collector Current-Continuous	-5	Α
Pc	Collector Power Dissipation @ Tc=25℃	15	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C





0.40

1.17

0.60

1.37



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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 = -10mA; I _B = 0	-25			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = -0.5A; I _B = -50mA			-0.3	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-0.75	V
V _{CE(sat)-3}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -1A			-1.8	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -5A; I _B = -1A			-2.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -2A; V _{CE} = -1V			-1.6	V
Ісво	Collector Cutoff Current	V _{CB} = -40V; I _E = 0 V _{CB} = -40V; I _E = 0; T _C = 125°C			-0.1 -100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -8V; I _C = 0			-0.1	μА
h _{FE-1}	DC Current Gain	I _C = -0.5A; V _{CE} = -1V	70			
h _{FE-2}	DC Current Gain	I _C = -2A; V _{CE} = -1V	45		180	
h _{FE-3}	DC Current Gain	I _C = -5A; V _{CE} = -2V	10			
f⊤	Current-Gain—Bandwidth Product	I _C = -0.1A; V _{CE} = -10V	65			MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V, f _{test} = 0.1MHz			120	pF

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