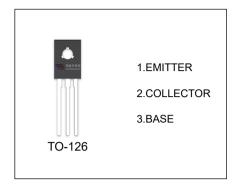


KSC2690 / KSC2690A TRANSISTOR (NPN)

FEATURES

- Audio Frequency Power Amplifier
- High Frequency Power Amplifier
- Complement to KSA1220/KSA1220A



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
KSC2690	TO-126	Bulk	200pcs/Bag
KSC2690A	TO-126	Bulk	200pcs/Bag
KSC2690-TU	TO-126	Tube	60pcs/Tube
KSC2690A-TU	TO-126	Tube	60pcs/Tube

MAXIMUM RATINGS (Ta=25 $^{\circ}$ C unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	KSC2690	120	V
		KSC2690A	160	V
V _{CEO}	Collector-Emitter Voltage	KSC2690	120	V
		KSC2690A	160	V
V _{EBO}	Emitter-Base Voltage		5	V
Ic	Collector Current (DC)		1.2	А
I _{CP}	Collector Current (PW ≤10ms,Duty Cycle ≤2 %)		2.5	А
I _B	Base Current		0.3	А
В	Collector Power Dissipation (T _a = 25 °C)		1.25	W
P _C	Collector Power Dissipation (T _c = 25 °C	ollector Power Dissipation (T _c = 25 °C)		W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range		-55-150	°C



T_a =25 $^{\circ}$ C unless otherwise specified

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} =120V, I _E =0			1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =3 V, I _C =0			1	μA
DC current soin	h _{FE(1)}	V _{CE} =5V, I _C =5mA	35	105		
DC current gain	h _{FE(2)}	V _{CE} =5V, I _C =300mA	60	140	320	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =1 A, I _B =200mA ⁽¹⁾		0.4	0.7	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =1 A, I _B =200mA ⁽¹⁾		1	1.3	V
Transition frequency	f _T	V _{CE} =5V, I _C =200mA		155		MHz
Collector output capacitance	Cob	V _{CB} =10V, I _E =0, f=1MHz		19		pF

 $^{^{(1)}\,}Pulse\;Test:PW{\leq}350\;us$, Duty Cycle ${\leq}\;2\;\%$

$\begin{array}{ccc} \textbf{CLASSIFICATION} \ \textbf{OF} & h_{\text{FE}(2)} \\ \end{array}$

Rank	R	0	Υ
Range	60-120	100-200	160-320