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SEMICONDUCTOR TM

KSC2690/2690A

Audio Frequency High Frequency Power Amplifier Complement to KSA1220/KSA1220A



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units	
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	
I _C	Collector Current (DC)	1.2	А	
I _{CP}	*Collector Current (Pulse)	2.5	А	
I _B	Base Current(DC)	0.3	А	
P _C	Collector Dissipation (T _a =25°C)	1.2	W	
P _C P _C	Collector Dissipation (T _C =25°C)	20	W	
TJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	- 55 ~ 150	°C	

Electrical Characteristics T_C=25°C unless otherwise noted

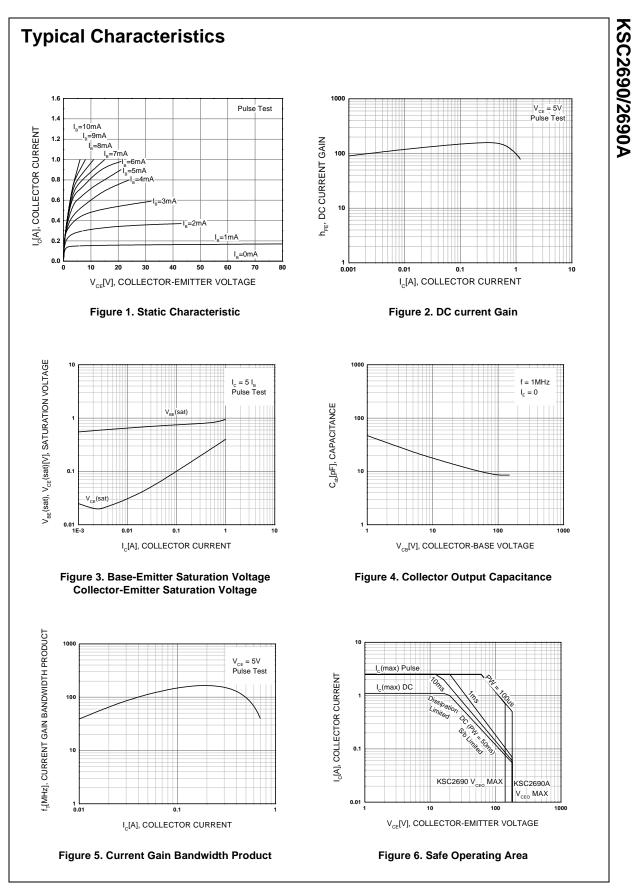
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CBO}	Collector Cut-off Current	V _{CB} = 120V, I _E = 0			1	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} = 3V, I _C = 0			1	μΑ
h _{FE1}	* DC Current Gain	$V_{CE} = 5V, I_{C} = 5mA$	35	105		
h _{FE2}		$V_{CE} = 5V, I_{C} = 0.3A$	60	140	320	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = 1A, I _B = 0.2A		0.4	0.7	V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	I _C = 1A, I _B = 0.2A		1	1.3	V
f _T	Current Gain Bandwidth Product	$V_{CE} = 5V, I_{C} = 0.2A$		155		MHz
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f = 1MHz		19		pF

* Pulse Test: PW≤350µs, Duty Cycle≤2% Pulsed

h_{FE} Classificntion

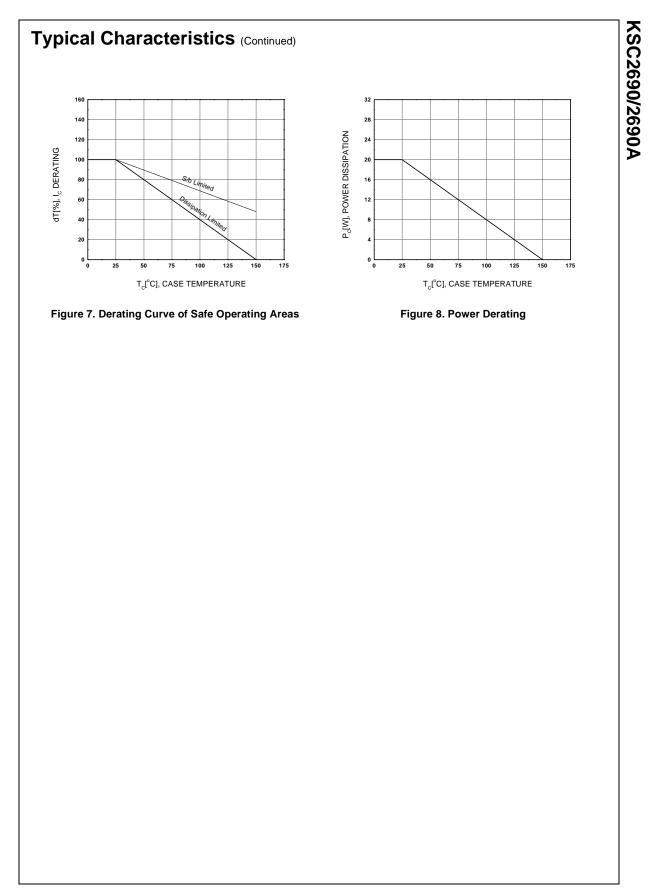
Classification	R	0	Y
h _{FE2}	60 ~ 120	100 ~ 200	160 ~ 320

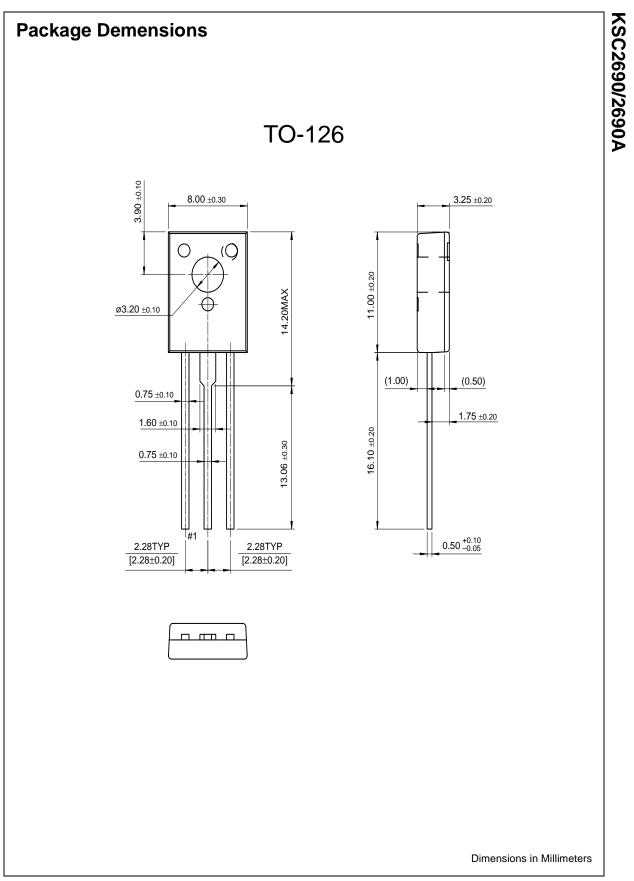
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