

SEMICONDUCTOR TM

# **KSA940**

# **Vertical Deflection Output Power Amplifier**

Complement to KSC2073



1.Base 2.Collector 3.Emitter

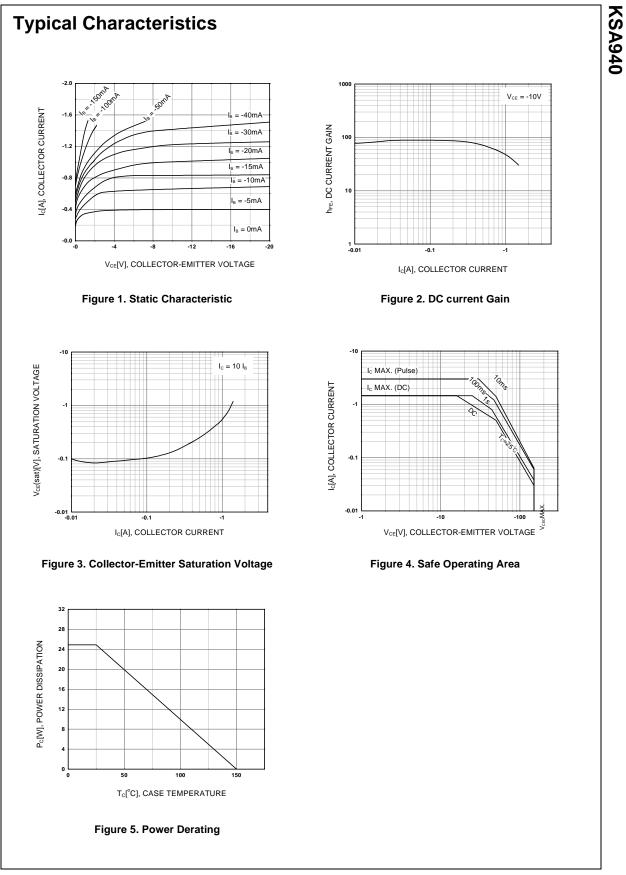
# **PNP Epitaxial Silicon Transistor**

Absolute Maximum Ratings  $T_C=25^{\circ}C$  unless otherwise noted

Symbol	Parameter	Ratings	Units
V <sub>CBO</sub>	Collector-Base Voltage	- 150	V
V <sub>CEO</sub>	Collector-Emitter Voltage	- 150	V
V <sub>EBO</sub>	Emitter-Base Voltage	- 5	V
I <sub>C</sub>	Collector Current	- 1.5	А
I <sub>B</sub>	Base Current	- 0.5	А
P <sub>C</sub>	Collector Dissipation (T <sub>a</sub> =25°C)	1.5	W
P <sub>C</sub> P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	25	W
TJ	Junction Temperature	150	°C
Т <sub>STG</sub>	Storage Temperature	- 55 ~ 150	°C

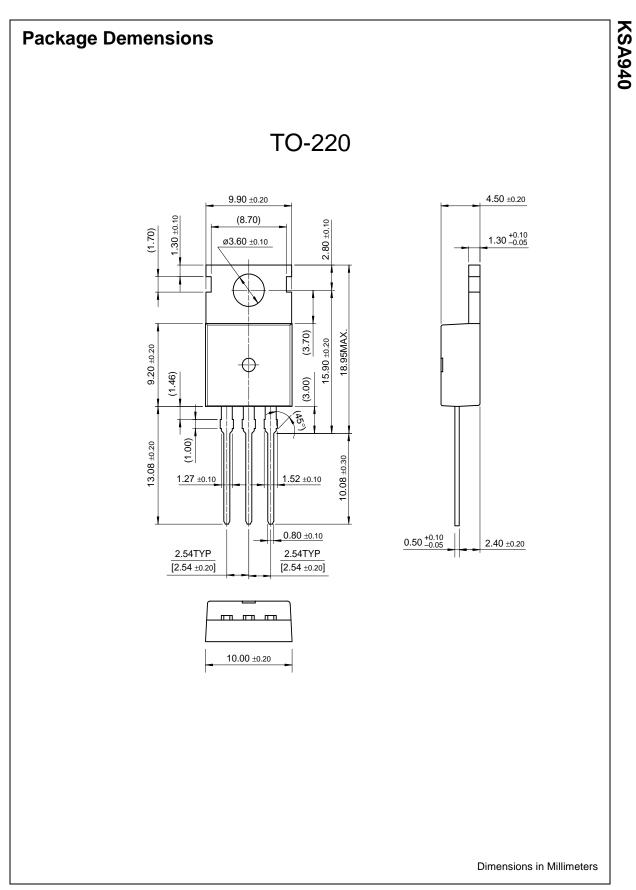
# Electrical Characteristics ${\rm T_{C}=25^{\circ}C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I <sub>CBO</sub>	Collector Cut-off Current	$V_{CB} = -120V, I_E = 0$			- 10	μA
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$			- 10	μA
h <sub>FE</sub>	DC Current Gain	V <sub>CE</sub> = - 10V, I <sub>C</sub> = - 500mA	40	75	140	
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = - 500mA, I <sub>B</sub> = - 50mA			- 1.5	V
V <sub>BE</sub> (on)	Base-Emitter ON Voltage	V <sub>CE</sub> = - 10V, I <sub>C</sub> = - 500mA	- 0.65	- 0.75	- 0.85	V
f <sub>T</sub>	Current Gain Bandwidth Product	V <sub>CE</sub> = - 10V, I <sub>C</sub> = - 500mA		4		MHz
C <sub>ob</sub>	Output Capacitance	V <sub>CB</sub> = - 10V, I <sub>E</sub> = 0 f = 1MHz		55		pF



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