

KSA940

Vertical Deflection Output Power Amplifier

• Complement to KSC2073



1.Base 2.Collector 3.Emitter

Rev. A, February 2000

PNP Epitaxial Silicon Transistor

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

Symbol	Parameter	Ratings	Units	
V_{CBO}	Collector-Base Voltage	- 150	V	
V _{CEO}	Collector-Emitter Voltage	- 150	V	
V _{EBO}	Emitter-Base Voltage	- 5		
I _C	Collector Current	- 1.5	A	
I _B	Base Current	- 0.5	А	
P _C	Collector Dissipation (T _a =25°C)	1.5	W	
P _C	Collector Dissipation (T _C =25°C)	25		
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	$V_{CB} = -120V, I_{E} = 0$			- 10	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$			- 10	μΑ
h _{FE}	DC Current Gain	$V_{CE} = -10V, I_{C} = -500mA$	40	75	140	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = -500 \text{mA}, I_B = -50 \text{mA}$			- 1.5	V
V _{BE} (on)	Base-Emitter ON Voltage	$V_{CE} = -10V, I_{C} = -500mA$	- 0.65	- 0.75	- 0.85	V
f _T	Current Gain Bandwidth Product	$V_{CE} = -10V, I_{C} = -500mA$		4		MHz
C _{ob}	Output Capacitance	V _{CB} = - 10V, I _E = 0 f = 1MHz		55		pF

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Typical Characteristics

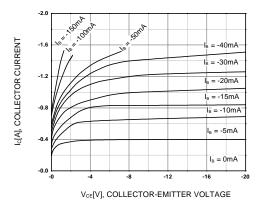


Figure 1. Static Characteristic

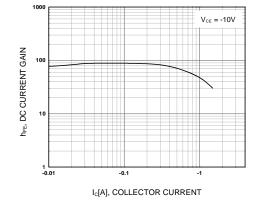


Figure 2. DC current Gain

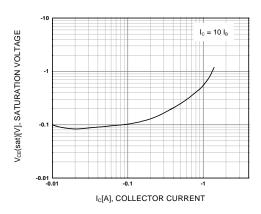


Figure 3. Collector-Emitter Saturation Voltage

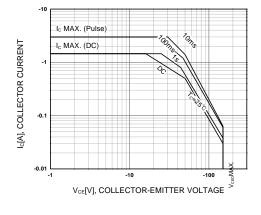


Figure 4. Safe Operating Area

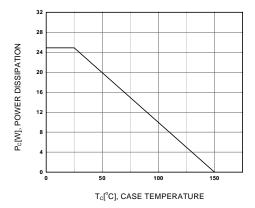
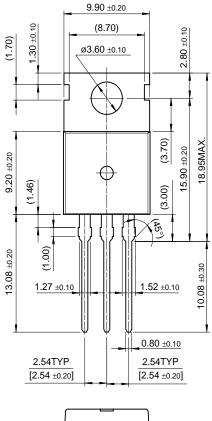


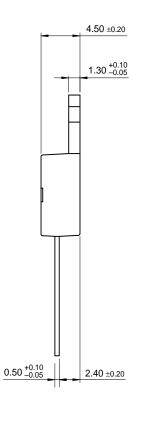
Figure 5. Power Derating

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Package Demensions

TO-220





10.00 ±0.20

Dimensions in Millimeters

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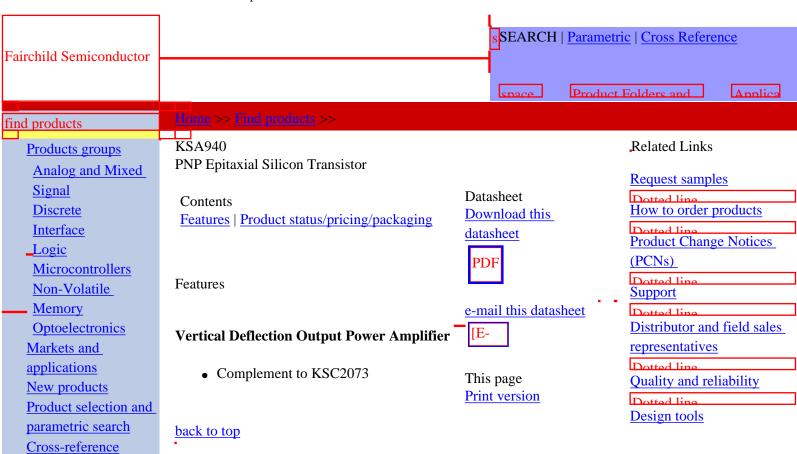
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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
KSA940TSTU	Full Production	\$0.322	TO-220	3	RAIL
KSA940TU	Full Production	\$0.322	TO-220	3	RAIL
KSA940H2	Full Production	\$0.323	TO-220	3	BULK
KSA940	Full Production	\$0.323	TO-220	3	BULK
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^{* 1,000} piece Budgetary Pricing

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