

Vertical Deflection Output Power Amplifier

KSA940

PNP Epitaxial Silicon TransistorComplement to KSC2073

• These are Pb-Free Devices

ABSOLUTE MAXIMUM RATINGS

 $(T_C = 25^{\circ}C \text{ unless otherwise noted.})$

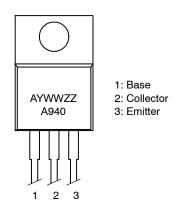
Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-150	V
V _{CEO}	Collector-Emitter Voltage	-150	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-1.5	Α
Ι _Β	Base Current	-0.5	Α
P _C	Collector Dissipation (T _a =25°C)	1.5	W
Pc	Collector Dissipation (T _C =25°C)	25	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55∼150	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.



TO-220-3LD CASE 340AT

MARKING DIAGRAM



A = Assembly Plant Code

YWW = 3-Digit Date Code (Year and Week)
ZZ = 2-Digits Lot Run Traceability Code

A940 = Specific Device Code

ELECTRICAL CHARACTERISTICS

 $(T_C = 25^{\circ}C \text{ unless otherwise noted.})$

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
I _{CBO}	Collector Cut-off Current	V _{CB} = - 120 V, I _E = 0	-	-	-10	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5 \text{ V}, I_{C} = 0$	ı	ı	-10	μΑ
h _{FE}	DC Current Gain	$V_{CE} = -10V$, $I_{C} = -500$ mA	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	$V_{CE} = -10 \text{ V}, I_{C} = -500 \text{ mA}$	-0.65	-0.75	-0.85	V
f _T	Current Gain Bandwidth Product	$V_{CE} = -10 \text{ V}, I_{C} = -500 \text{ mA}$	-	4	-	MHz
C _{ob}	Output Capacitance	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ mHz}$	_	55	-	pF

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

ORDERING INFORMATION

Device	Package	Shipping
KSA940TU	TO-220-3LD (Pb-Free)	1000 Units / Tube

KSA940

TYPICAL PERFORMANCE CHARACTERISTICS

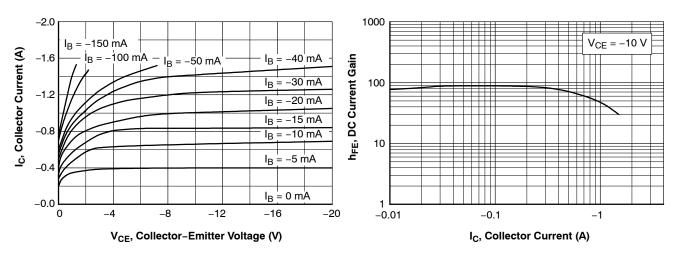


Figure 1. Static Characteristic

Figure 2. DC Current Gain

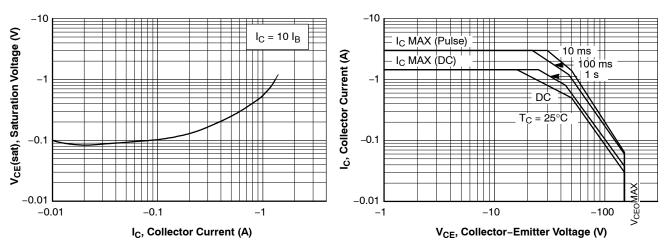


Figure 3. Collector-Emitter Saturation Voltage



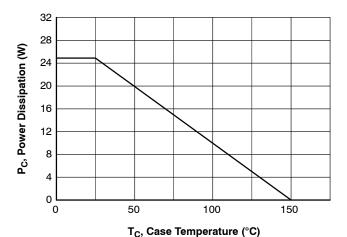
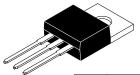


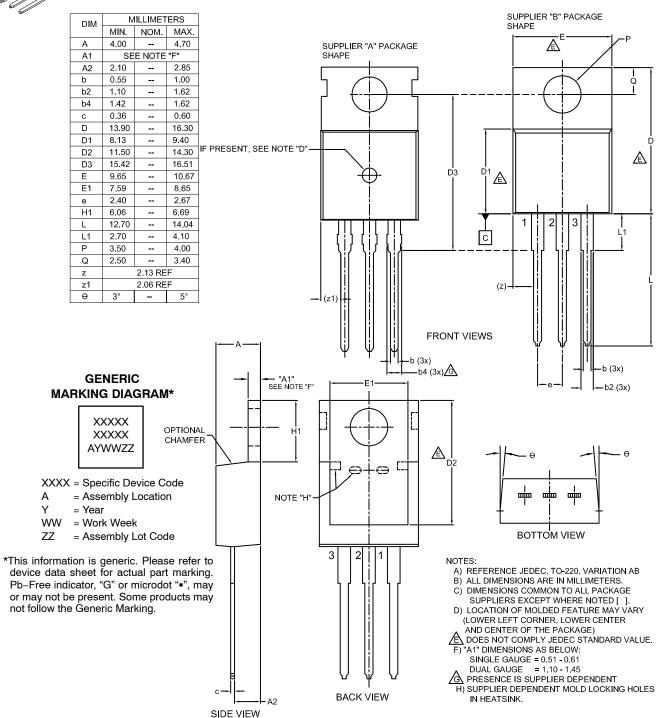
Figure 5. Power Derating





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