

SEMICONDUCTOR

KSD1273

High h_{FE}, AF Power Amplifier • "Full PAK" Package for Simplified Mounting Only by a Screw, Requires no Insulator.



1.Base 2.Collector 3.Emitter

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	80	V
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current (DC)	3	А
I _{CP}	Collector Current (Pulse)	6	А
I _B	Base Current	1	А
P _C	Collector Dissipation (T _a =25°C)	2	W
P _C	Collector Dissipation (T _C =25°C)	40	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

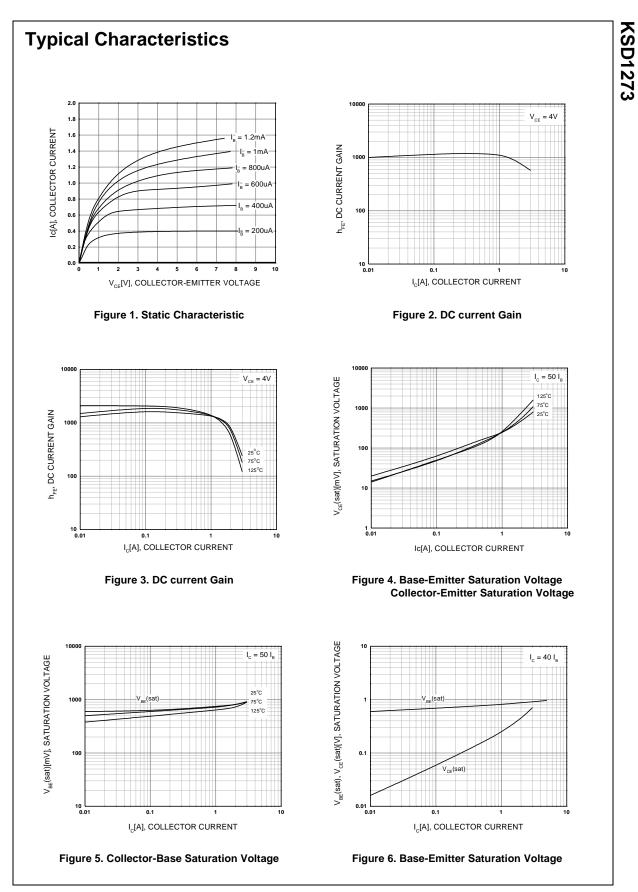
Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Voltage	I _C = 25mA, I _B = 0	60			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = 80V, I_E = 0$			100	μΑ
I _{CEO}	Collector Cut-off Current	$V_{CE} = 60V, I_B = 0$			100	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 6V, I_{C} = 0$			100	μΑ
h _{FE}	DC Current Gain	$V_{CE} = 4V, I_{C} = 0.5A$	500		2500	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2A, I _B = 0.05A			1	V
f _T	Current Gain Bandwidth Product	$V_{CE} = 12V, I_{C} = 0.2A$		30		MHz

h_{FE} Classification

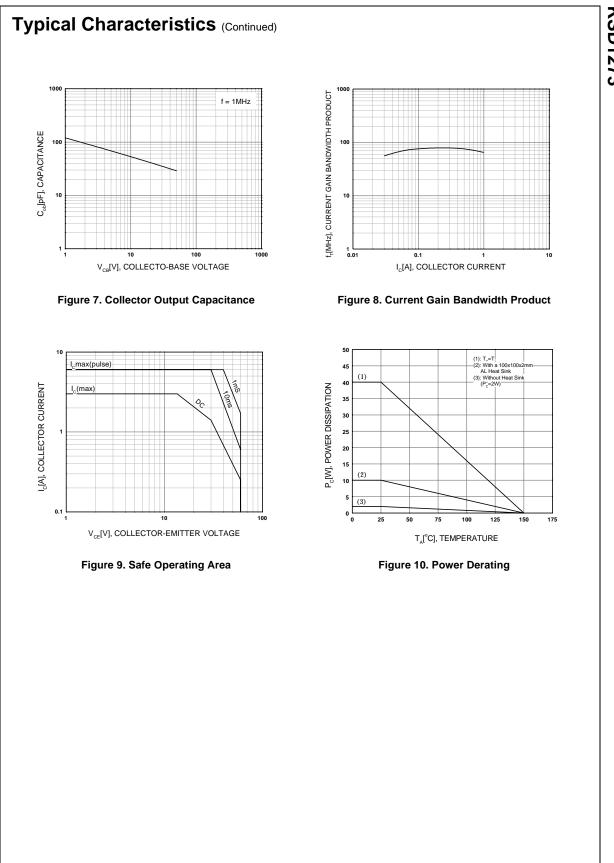
Classification Q		Р	0	
h _{FE}	500 ~ 1000	800 ~ 1500	1200 ~ 2500	

KSD1273

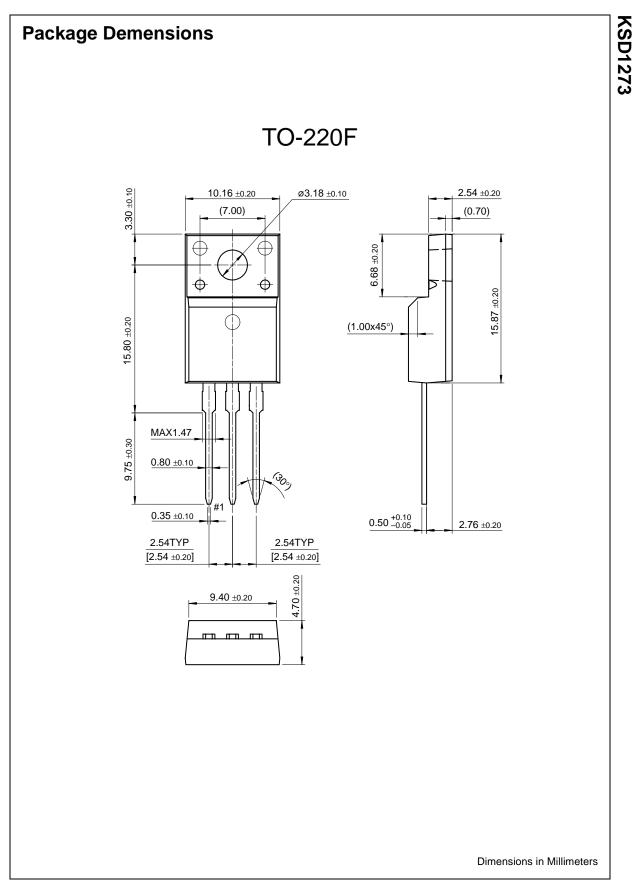


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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.



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Datasheet

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KSD1273 NPN Epitaxial Silicon Transistor



Features

• "Full Pack" Package for Simplified Mounting Only by a Screw, Requires No Insulator

Full Production

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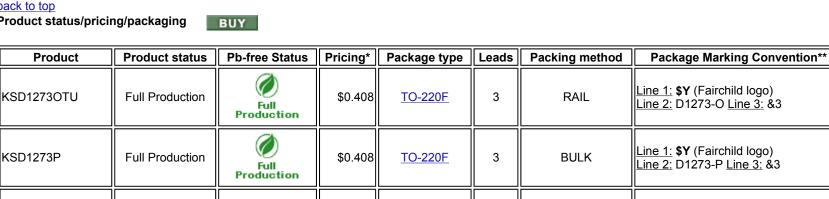
Applications

High h_{FF}, AF Power Amplifier

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KSD1273PTSTU

Product status/pricing/packaging



TO-220F

3

RAIL

Line 1: **\$Y** (Fairchild logo)

\$0.408

Related Links

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		Full Production					<u>Line 2:</u> D1273-P <u>Line 3:</u> &3
KSD1273PTU	Full Production	Full Production	\$0.408	<u>TO-220F</u>	3	RAIL	Line 1: \$Y (Fairchild logo) Line 2: D1273-P Line 3: &3
KSD1273QTU	Full Production	Full Production	\$0.408	<u>TO-220F</u>	3		Line 1: \$Y (Fairchild logo) Line 2: D1273-Q Line 3: &3
KSD1273QYDTU	Full Production	Full Production	\$0.408	<u>TO-220F</u>	3		Line 1: \$Y (Fairchild logo) Line 2: D1273-Q Line 3: &3

* Fairchild 1,000 piece Budgetary Pricing
** A sample button will appear if the part is available through Fairchild's on-line samples program. If there is no sample button, please contact a <u>Fairchild distributor</u> to obtain samples

Ø Indicates product with Pb-free second-level interconnect. For more information click here.

Package marking information for product KSD1273 is available. Click here for more information .

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Qualification Support

Click on a product for detailed qualification data

Product
KSD1273OTU
KSD1273P
KSD1273PTSTU
KSD1273PTU
KSD1273QTU
KSD1273QYDTU

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