

NPN Epitaxial Silicon Transistor

KSD471A

Features

- Audio Frequency Power Amplifier
- Complementary to KSB1151
- Collector Current: $I_C = 1 A$
- Collector Power Dissipation: P_C = 800 mW
- Suffix "-C" means Center Collector (1. Emitter 2. Collector 3. Base)

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^{\circ}C$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	30	٧
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	1	Α
PC	Collector Power Dissipation	800	mW
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 to +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.

1. Emitter 2. Base 3. Collector 1₂/₃ 1₂/₃ TO-92 3 TO-92 3 LF CASE 135AN CASE 135AR

MARKING DIAGRAM

AD4 71AY YWW

A = Assembly Code D471AY = Device Code YWW = Data Code

ORDERING INFORMATION

See detailed ordering and shipping information on page 3 of this data sheet.

NOTE: Some of the devices on this data sheet have been **DISCONTINUED**. Please refer to the table on page 3.

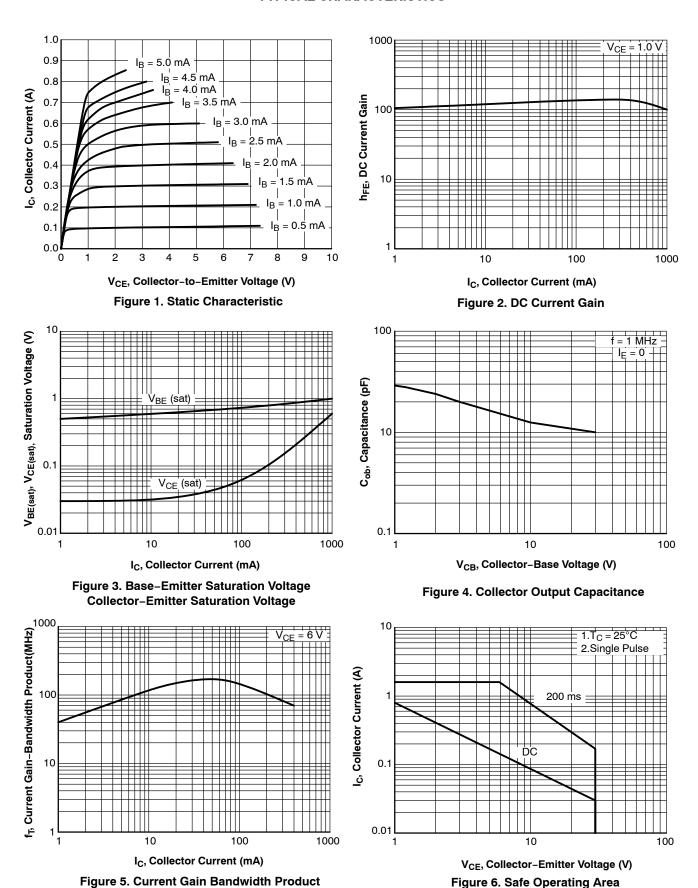
ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Test Condition	Min	Тур	Max	Unit
BV _{CBO}	Collector-Base Breakdown Voltage	$I_C = 100 \mu A, I_E = 0$	40	-	-	V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 10 mA, I _B = 0	30	-	-	V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_E = 100 \mu A, I_C = 0$	5	-	-	V
I _{CBO}	Collector Cut-off Current	V _{CB} = 30 V, I _E = 0	_	-	0.1	μΑ
h _{FE}	DC Current Gain	$V_{CE} = 1 \text{ V, } I_{C} = 100 \text{ mA}$	120	ı	240	-
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 1 A, I _B = 0.1 A	_	ı	0.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 1 A, I _B = 0.1 A	_	ı	1.2	V
f _T	Current Gain BandWidth Product	$V_{CE} = 6 \text{ V}, I_{C} = 10 \text{ mA}$	_	130	-	MHz
C _{ob}	Output Capacitance	$V_{CB} = 6 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$	_	16	-	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.

KSD471A

TYPICAL CHARACTERISTICS



KSD471A

ORDERING INFORMATION

Device	Package	Shipping
KSD471ACYTA	TO-92-3 (Pb-Free)	10000 BLKBG
KSD471AYTA	TO-92-3LF (Pb-Free)	2000 FNFLD

DISCONTINUED (Note 1)

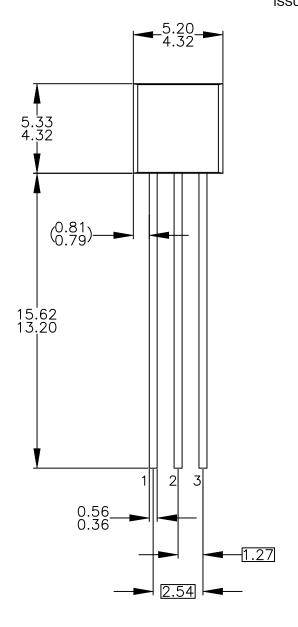
KSD471ACYBU	TO-92-3LF	2000 FNFLD
	(Pb-Free)	

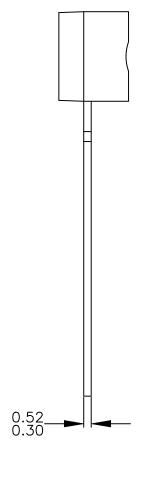
^{1.} **DISCONTINUED:** This device is not recommended for new design. Please contact your **onsemi** representative for information. The most current information on this device may be available on www.onsemi.com.



TO-92 3 4.825x4.76 CASE 135AN ISSUE O

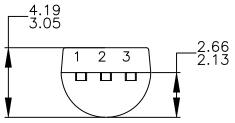
DATE 31 JUL 2016





NOTES: UNLESS OTHERWISE SPECIFIED

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- B) ALL DIMENSIONS ARE IN MILLIMETERS.
- C) DRAWING CONFORMS TO ASME Y14.5M-2009.



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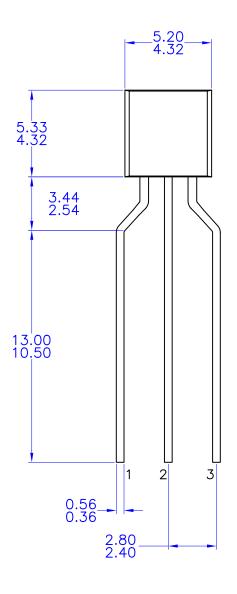


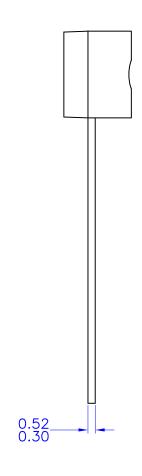


TO-92 3 4.83x4.76 LEADFORMED

CASE 135AR ISSUE O

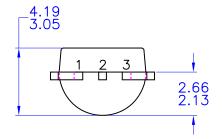
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