

# **AUIPS6031R Datasheet**



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DiGi Electronics Part Number AUIPS6031R-DG

Manufacturer Infineon Technologies

Manufacturer Product Number AUIPS6031R

Description IC PWR SWITCH N-CHANNEL 1:1 DPAK

**Detailed Description** Power Switch/Driver 1:1 N-Channel 2.8A TO-252AA

(DPAK



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## **Purchase and inquiry**

Manufacturer Product Number:	Manufacturer:
AUIPS6031R	Infineon Technologies
Series:	Product Status:
	Obsolete
Switch Type:	Number of Outputs:
General Purpose	1
Ratio - Input:Output:	Output Configuration:
1:1	High Side
Output Type:	Interface:
N-Channel	On/Off
Voltage - Load:	Voltage - Supply (Vcc/Vdd):
36V (Max)	Not Required
Current - Output (Max):	Rds On (Typ):
2.8A	46mOhm
Input Type:	Features:
Non-Inverting	Auto Restart
Fault Protection:	Operating Temperature:
Current Limiting (Fixed), Open Load Detect, Over Temperature	-40°C ~ 150°C (TJ)
Grade:	Qualification:
Automotive	AEC-Q100
Mounting Type:	Supplier Device Package:
Surface Mount	TO-252AA (DPAK)
Package / Case:	Base Product Number:
TO-252-3, DPAK (2 Leads + Tab), SC-63	AUIPS6031

## **Environmental & Export classification**

Moisture Sensitivity Level (MSL):	REACH Status:
1 (Unlimited)	REACH Unaffected
ECCN:	HTSUS:
EAR99	8542.39.0001



September, 12th 2011 **Automotive grade** 

# AUIPS6031(S)(R)

Done please find

## INTELLIGENT POWER HIGH SIDE SWITCH

#### **Features**

- Over temperature shutdown (with auto-restart)
- Short circuit protection (current limit)
- Reverse battery protection (turns On the MOSFET)
- Full diagnostic capability (short circuit to battery)
- Active clamp
- Open load detection in On and Off state
- Ground loss protection
- · Logic ground isolated from power ground
- ESD protection
- Lead Free and RoHS compliant

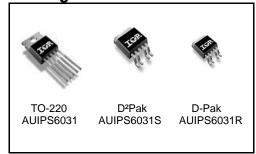
#### **Description**

The AUIPS6031(S)(R) is a five terminal Intelligent Power Switch (IPS) for use in a high side configuration. It features short circuit, over-temperature, ESD protection, inductive load capability and diagnostic feedback. The output current is limited to the Ilim value. The current limitation is activated until the thermal protection acts. The over-temperature protection turns off the device if the junction temperature exceeds the Tshutdown value. It will automatically restart after the junction has cooled 7°C below the Tshutdown value. The reverse battery protection turns On the MOSFET. A diagnostic pin provides different voltage levels for each fault condition. The double level shifter circuitry will allow large offsets between the logic and load ground.

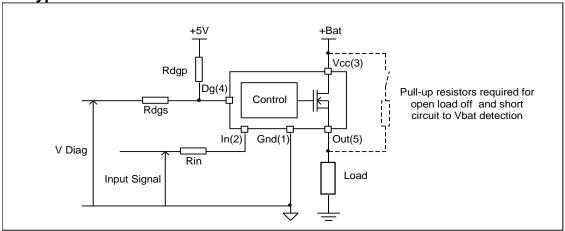
## **Product Summary**

 $\begin{array}{lll} \text{Rds(on)} & 60\text{m}\Omega \text{ max.} \\ \text{Vclamp} & 39\text{V} \\ \text{I Limit} & 16\text{A} \\ \text{Open load} & 3\text{V} \, / \, 0.55\text{A} \end{array}$ 

#### **Packages**



## **Typical Connection**





### Qualification Information<sup>†</sup>

Qualifica	ation Level	Automotive (per AEC-Q100 <sup>††</sup> )  Comments: This family of ICs has passed an Automotive qualification. IR's Industrational Consumer qualification level is granted by extension of the higher			
Moisture Sensitivity Level		Automotive level.  D2PAK-5L	MSL1, 260°C (per IPC/JEDEC J-STD-020)		
		TO-220	Not applicable (non-surface mount package style)		
		DPAK-5L	MSL1, 260°C (per IPC/JEDEC J-STD-020)		
	Machine Model	Class M2 (+ (per AEC-0			
ESD	Human Body Model	Class H1C (+/-1500V) <sup>†††</sup> (per AEC-Q100-002)			
ESD	Charged Device Model (DPAK,D2PAK)	Class C4 (+ (per AEC-0	2100-011)		
	Charged Device Model (TO220)	Class C3B ( (per AEC-0			
IC Latch	-Up Test	Class II, Level A (per AEC-Q100-004)			
RoHS C	ompliant	Yes			

<sup>†</sup> Qualification standards can be found at International Rectifier's web site <a href="http://www.irf.com/">http://www.irf.com/</a>

<sup>††</sup> Exceptions to AEC-Q100 requirements are noted in the qualification report.

<sup>†††</sup> Passing voltage level



### **Absolute Maximum Ratings**

Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur. All voltage parameters are referenced to Ground lead. Tj= -40°C..150°C, Vcc=6..35V (unless otherwise specified).

Symbol	Parameter	Min.	Max.	Units
Vout	Maximum output voltage	Vcc-35	Vcc+0.3	
Voffset	Maximum logic ground to load ground offset	Vcc-35	Vcc+0.3	
Vin	Maximum input voltage	-0.3	5.5	V
Vcc max.	Maximum Vcc voltage	_	36	V
Vcc cont.	Maximum continuous Vcc voltage	_	28	
Vcc sc.	Maximum Vcc voltage with short circuit protection	_	30	
lin max.	Maximum IN current	-3	10	A
ldg max.	Maximum diagnostic output current	-3	10	mA
Vdg	Maximum diagnostic output voltage	-0.3	5.5	V
	Maximum power dissipation (internally limited by thermal protection)			
Pd	Rth=5°C/W AUIPS6031	_	25	W
Pu	Rth=40°C/W AUIPS6031S 1"sqrt. footprint	_	3.1	VV
	Rth=50°C/W AUIPS6031R 1"sqrt. footprint	_	2.5	
Tj max.	Max. storage & operating temperature junction temperature	-40	150	°C

#### **Thermal Characteristics**

Symbol	Parameter	Тур.	Max.	Units
Rth1	Thermal resistance junction to ambient AUIPS6031 TO220 free air	50	_	
Rth2	Thermal resistance junction to case AUIPS6031 TO220	3.8	_	
Rth1	Thermal resistance junction to ambient AUIPS6031S D <sup>2</sup> Pak std. footprint	60	_	
Rth2	Thermal resistance junction to ambient AUIPS6031S D²Pak 1" sqrt. footprint	40	_	°C/W
Rth3	Thermal resistance junction to case AUIPS6031S D <sup>2</sup> Pak	3.8	_	C/VV
Rth1	Thermal resistance junction to ambient AUIPS6031R D-Pak std. footprint	70	_	
Rth2	Thermal resistance junction to ambient AUIPS6031R D-Pak 1" sqrt. footprint	50	_	
Rth3	Thermal resistance junction to case AUIPS6031R D-Pak	3.8	_	

Recommended Operating Conditions

These values are given for a quick design. For operation outside these conditions, please consult the application notes.

Symbol	Parameter	Min.	Max.	Units
VIH	High level input voltage	4	5.5	
VIL	Low level input voltage	0	0.9	
lout	Continuous drain current, Tambient=85°C, Tj=125°C, Vin=5V			
	Rth=5°C/W AUIPS6031	_	8.9	Α
	Rth=40°C/W AUIPS6031S 1" sqrt. footprint	_	3.1	
	Rth=50°C/W AUIPS6031R 1" sqrt. footprint	_	2.8	
Rin	Recommended resistor in series with IN pin	4	10	
Rdgs	Recommended resistor in series with DG pin for reverse battery protection	4	20	1.0
Rdgp	Recommended pull-up resistor for DG	4	20	kΩ
Rol	Recommended pull-up resistor for open load detection	5	100	
F max.	Max. switching frequency	_	2.5	kHz



### **Static Electrical Characteristics**

Tj=-40°C..150°C, Vcc=6..28V (unless otherwise specified), typical values are given for Vcc=14V and Tj=25°C

Symbol	Parameter	Min.	Тур.	Max.	Units	Test Conditions
Rds(on)	ON state resistance Tj=25°C	_	46	60		Vin=5V, lout=5A
	ON state resistance Tj=150°C	_	83	100		Vin=5V, Iout=5A
	ON state resistance Tj=25°C, Vcc=6V	_	55	70	mΩ	Vin=5V, lout=2.5A
	ON state resistance during reverse battery Tj=25°C	_	60	80		Vcc-Gnd=-14V
Vcc op.	Operating voltage range	6	_	28		
V clamp 1	Vcc to Out clamp voltage 1	37	39	43	V	lout=30mA
V clamp 2	Vcc to Out clamp voltage 2	_	40	_		lout=4A (see Fig. 1)
Icc Off	Supply current when Off and Vout connected to ground with $R<4\Omega$	_	4	9	μΑ	Vin=0V, Vout=0V, Tj=25°C, Vcc=14V
Icc On	Supply current when On	_	2.2	5	mA	Vin=5V, Vcc=14V
Vih	Input high threshold voltage	_	2.5	3		
Vil	Input low threshold voltage	1.5	2	_	V	
In hyst.	Input hysteresis	0.2	0.5	1		
lin On	Input current when device is On	_	40	100		Vin=5V
ldg	Dg leakage current	_	0.1	10	μA	Vdg=5V
Vdg	Low level DG voltage		0.25	0.4	V	ldg=1.6mA

## **Switching Electrical Characteristics**

Vcc=14V, Resistive load=6Ω, Vin=5V, Tj=-40°C..150°C, typical values are given for Tj=25°C

Symbol	Parameter	Min.	Тур.	Max.	Units	Test Conditions
Tdon	Turn-on delay time	_	8	25		
Tr1	Rise time to Vout=Vcc-5V	_	5	20	μs	
Tr2	Rise time to Vout=0.9 x Vcc	_	8	35	-	
dV/dt (On)	Turn On dV/dt	_	1.5	_	V/µs	
EOn	Turn On energy	_	150	_	μJ	see Fig. 3
Tdoff	Turn-off delay time	_	20	45	110	
Tf	Fall time to Vout=0.1 x Vcc	_	9	30	μs	
dV/dt (Off)	Turn Off dV/dt	_	3	_	V/µs	
EOff	Turn Off energy	_	65	_	μJ	



#### **Protection Characteristics**

Tj=-40°C..150°C, Vcc=6..28V (unless otherwise specified), typical values are given for Vcc=14V and Tj=25°C

Symbol	Parameter	Min.	Тур.	Max.	Units	Test Conditions
llim	Internal current limit	10	16	23	Α	Vout=0V, Tj=25°C
Tsd+	Over temperature high threshold	150(1)	165	_	°C	See fig. 2
Tsd-	Over temperature low threshold	_	158	_	)	See lig. 2
Vsc	Short-circuit detection voltage(2)	2	3	4		
UV+	Under voltage protection Vcc going up	_	5	6.2	V	
UV-	Under voltage protection Vcc going down	_	4.5	5.8	V	
VOL Off	Open load detection threshold	2	3	4		
I OL On	Open load detection threshold	0.15	0.4	0.65	Α	Tj=-4025°C
TOLOII		0.15	0.4	0.55		Tj=25150°C

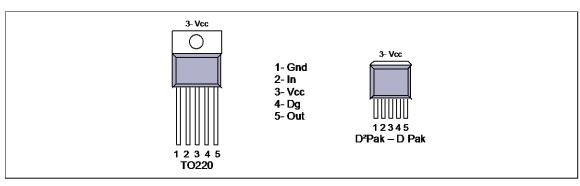
- (1) Guaranteed by design
- (2) Reference to Vcc

#### **True Table**

Operating Conditions	IN	OUT	DG
Normal	Н	Н	Н
Normal	L	L	Н
Open Load	Н	Н	L
Open Load (3)	L	Н	L
Short circuit to Gnd	Н	L	L
Short circuit to Gnd	L	L	Н
Short circuit to Vcc	Н	Н	L (4)
Short circuit to Vcc (5)	L	Н	L
Over-temperature	Н	Ĺ	Ĺ
Over-temperature	Ĺ	Ĺ	Н

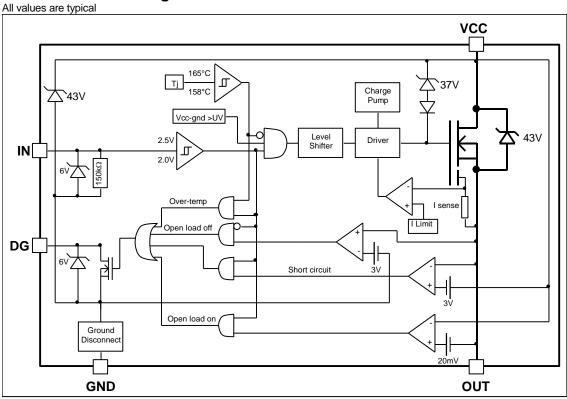
- (3) With a pull-up resistor connected between the output and Vcc.
- (4) Vds lower than 10mV.
- (5) Without a pull-up resistor connected between the output and Vcc.

## **Lead Assignments**

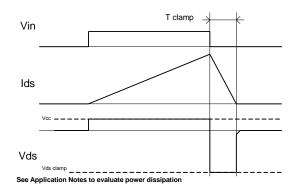




## **Functional Block Diagram**







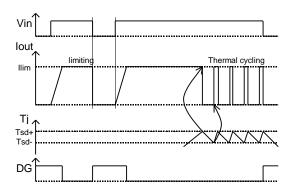
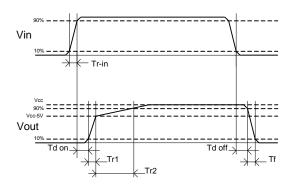


Figure 1 - Active clamp waveforms

Figure 2 - Protection timing diagram



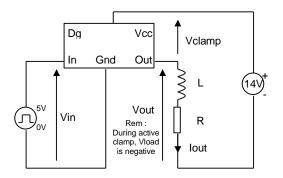


Figure 3 - Switching times definitions

Figure 4 - Active clamp test circuit

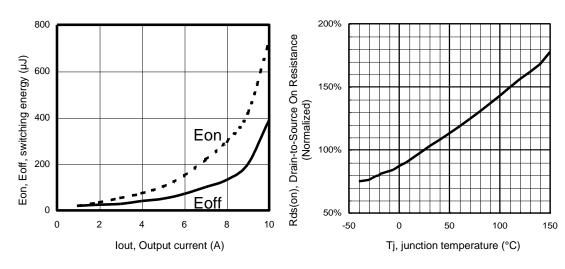


Figure 5 – Switching energy (µJ) Vs Output current (A)

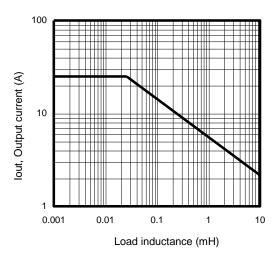
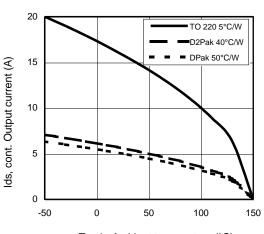


Figure 7 – Max. Output current (A) Vs Load inductance (mH)

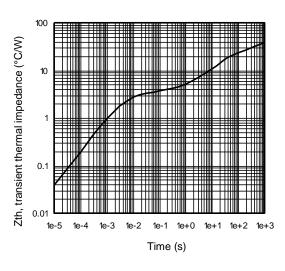




Tamb, Ambient temperature (°C)

Figure 8 – Max. ouput current (A) Vs Ambient temperature (°C)

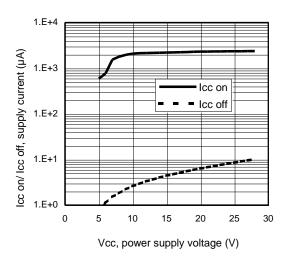




20 (4) 10 (5) 10 (7) 100 Tj, junction temperature (°C)

Figure 9 – Transient thermal impedance (°C/W)
Vs time (s)

Figure 10 –I limit (A)
Vs junction temperature (°C)



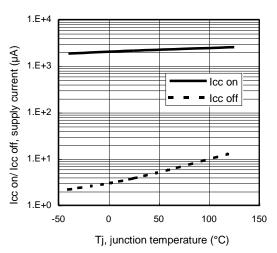
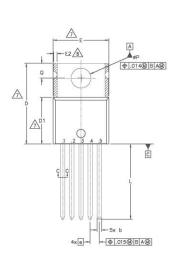


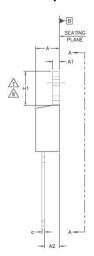
Figure 11 - Icc on/ Icc off (µA) Vs Vcc (V)\*

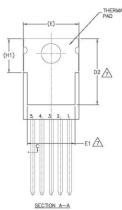
Figure 12 - Icc on/ Icc off (µA) Vs Tj (°C)\*

<sup>\*</sup>Vout connected to ground with R<4 $\Omega$ 

## Case Outline - TO220 (5 leads)







SY		DIMENSIONS			N
SY MBO	MILLIME	TERS	INC	HES	NOTES
L	MIN.	MAX.	MIN.	MAX.	S
A	3.56	4.83	.140	.190	
A1	0.51	1.40	.020	.055	
A2	2.03	2.92	.080	.115	
b	0.64	0.89	.025	.035	
ь1	0.64	0.84	.025	.033	5
c	0.36	0.61	.014	.024	
c1	0.36	0.56	.014	.022	5
D	14.22	16.51	.560	.650	4
D1	8.38	9.02	.330	.355	
D2	11.68	12.88	.460	.507	7
E	9.65	10.67	.380	.420	4,7
E1	6.86	8.89	.270	.350	7
E2	=	0.76	-	.030	8
e	1.70	BSC	.067	BSC	٦.
H1	5.84	6.86	.230	.270	7,8
L	12.70	14.73	.500	.580	
φP	3.53	3.73	.139	.147	
Q	2.54	3.05	.100	.120	

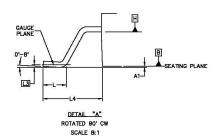
PLATING _	ь—	BASE
(c)		61/5
	SECTION C-C	<u>\sqrt{5}</u>

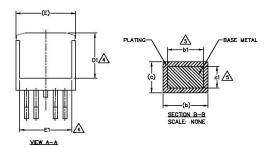
- DILIENSION ZE X H1 DEFINE A ZONE WHERE STAMPING
  AND SINGULATION IRREGULARITIES ARE ALLOWED
  OUTLINE CONFORMS TO JEDEC TO—220, EXCEPT A2 (mics.) AND D2 (min.)
  WHERE DIMENSIONS ARE DEFINED FROM THE ACTUAL PACKAGE OUTLINE.

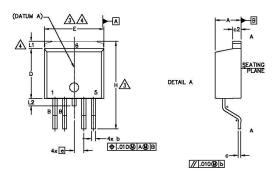
10.- LEADS AND DRAIN ARE PLATED WITH 100% Sn



#### Case Outline D2PAK - 5 Leads





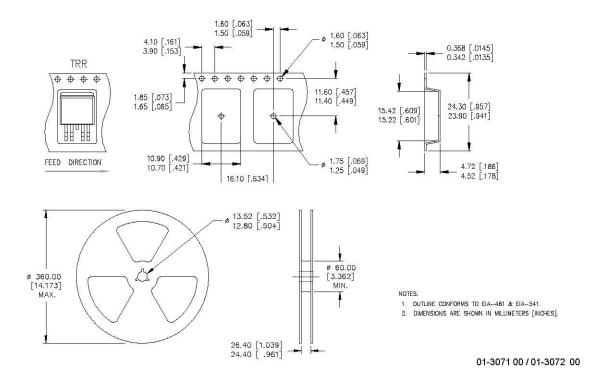


#### NOTES:

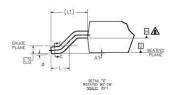
- 1. DIMENSIONING AND TOLERANCING AS PER ASME Y14.5M-1994
- 2. DIMENSIONS ARE SHOWN IN MILLIMETERS [INCHES].
- △\$\timesion d & E dd not include mold flash. Mold flash shall not exceed 0.127 [.005"] PER SIDE. THESE DIMENSIONS ARE MEASURED AT THE OUTMOST EXTREMES OF THE PLASTIC BODY AT DATUM H.
- ATHERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSION E, L1, D1 & E1.
- 5 DIMENSION 61 AND c1 APPLY TO BASE METAL ONLY.
- 6. DATUM A & B TO BE DETERMINED AT DATUM PLANE H.
- 7. CONTROLLING DIMENSION: INCH.
- 8. OUTLINE CONFORMS TO JEDEC OUTLINE TO-263BA.
- 9 LEADS AND DRAIN ARE PLATED : 100% Sn

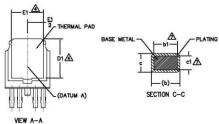
S Y M	DIMENSIONS				N
В	MILLIMETERS		INCHES		NOTES
B O L	MIN.	MAX.	MIN.	MAX.	Š
Α	4.06	4.83	.160	.190	
A1	=	0.254	_	.010	
ь	0.51	0.99	.020	.039	4
b1	0.51	0.89	.020	.035	
c	0.38	0.74	.015	.029	
c1	0.38	0.58	.015	.023	4
<b>c2</b>	1.14	1.65	.045	.065	
D	8.38	9.65	.330	.380	3
D1	6.86	-	.270	-	-
E	9.65	10.67	.380	.420	3
E1	6.22	-	.245	-	
e	1.70 BSC		.067	BSC	
н	14.61	15.88	.575	.625	
L	1.78	2.79	.070	.110	
L1	:-	1.68	-	.066	
L2	-	1.78	-	.070	
L3	0.25 BSC		.010 BSC		
L4	4.78	5.28	.188	.208	l

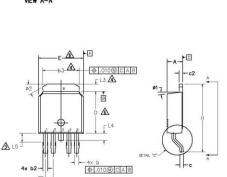
## Tape & Reel D2PAK - 5 Leads



#### Case Outline DPAK - 5 Leads





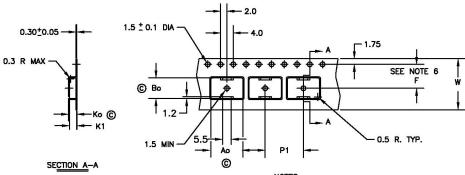


S	DIMENSIONS				N
ВО	MILLIMETERS		INCHES		O
L	MIN.	MAX.	MIN.	MAX.	E
Α	2.18	2.39	.086	.094	
A1	_	0.13	-	.005	
ь	0.56	0.79	.022	.031	
ь1	.056	0.74	.022	.029	2
<b>b</b> 2	0.65	0.89	.026	.035	
b3	4.95	5.46	.195	.215	2
c	0.46	0.61	.018	.024	
c1	0.41	0.56	.016	.022	2
c2	0.46	0.89	.018	.035	
D	5.97	6.22	.235	.245	3
D1	5.21	1-	.205	-	
E	6.35	6.73	.250	.265	3
E1	4.32	_	.170	_	
е	1.14	BSC	.045	BSC	
Н	9.40	10.41	.370	.410	
L	1.40	1.78	.055	.070	
L1	2.74 BSC		.108	REF.	
L2	0.51 BSC		.020	BSC	
L3	0.89	1.27	.035	.050	
L4	_	1.02	_	.040	
L5	1.14	1.52	.045	.060	
ø	0.	10°	0,	10°	
ø1	0.	15*	0.	15*	
ø2	28*	32*	28*	32*	

#### NOTES:

- 1.- DIMENSIONING AND TOLERANCING AS PER ASME Y14.5M-1994
- 2.- DIMENSION ARE SHOWN IN INCHES [MILLIMETERS].
- A- LEAD DIMENSION UNCONTROLLED IN L5.
- A- DIMENSION D1, E1, L3 & b3 ESTABLISH A MINIMUM MOUNTING SURFACE FOR THERMAL PAD.
- 5.— SECTION C-C DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN .005 AND 0.10 [0.13 AND 0.25] FROM THE LEAD TIP.
- DIMENSION D & E DO NOT INCLUDE MOLD FLASH, MOLD FLASH SHALL NOT EXCEED .005 [0.13] PER SIDE. THESE DIMENSIONS ARE MEASURED AT THE OUTMOST EXTREMES OF THE PLASTIC BODY.
- A- DIMENSION 61 & c1 APPLIED TO BASE METAL ONLY.
- 8.- DATUM A & B TO BE DETERMINED AT DATUM PLANE H.
- 9.- OUTLINE CONFORMS TO JEDEC OUTLINE TO-252.
- 10. LEADS AND DRAIN ARE PLATED WITH 100% Sn

### Tape & Reel DPAK - 5 Leads



Ao = 10.5 mm Bo = 7.0 mm Ko = 2.8 mm K1 = 2.4 mm F = 7.5 mm P1 = 12.0 mm 16.0 ± .3 mm

#### NOTES:

- 10 SPROCKET HOLE PUNCH CUMULATIVE TOLERANCE ±.02
  CAMBER NOT TO EXCEED 1mm IN 100mm
  MATERIAL: CONDUCTIVE BLACK POLYSTYRENE
  A6 AND B6 MEASURED ON A PLANE 0.3mm ABOVE THE
  BOTTOM OF THE POCKET
  K6 MEASURED FROM A PLANE ON THE INSIDE BOTTOM OF THE
  POCKET TO THE TOP SURFACE OF THE CARRIER
  POCKET POSITION RELATIVE TO THE SPROCKET HOLE MEASURED AS
  TRUE POSITION OF POCKET, NOT POCKET HOLE

- TRUE POSITION OF POCKET, NOT POCKET HOLE

  7. VENDOR: (OPTIONAL)

  8. MUST ALSO MEET REQUIREMENTS OF EIA STANDARD #EIA-481A,
  TAPING OF SURFACE-MOUNT COMPONENTS FOR AUTOMATIC
  PLACEMENT.

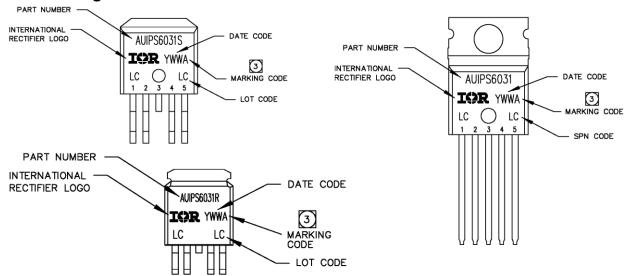
  9. TOLERANCE TO BE MANUFACTURER STANDARD

  10. SURFACE RESISTIVITY OF MOLDED MATL: MUST MEASURE
  LESS THAN OR EQUAL TO 10\* OHMS PER SQUARE. MEASURED
  IN ACCORDANCE TO PROCEDURE GIVEN IN ASTM D-257 &
  ASTM D-991 (REF. C-9000 SPEC.)

  11. TOTAL LENGTH PER REEL MUST BE 79 METERS
- 12. C CRITICAL DIMENSION



## **Part Marking Information**



## **Ordering Information**

Base Part Number		Standard Pack			
base i ait ivuilibei	Package Type	Form	Quantity	Complete Part Number	
AUIPS6031	TO220-5-Leads	Tube	50	AUIPS6031	
	D2-Pak-5-Leads	Tube	50	AUIPS6031S	
AUIPS6031S		Tape and reel left	800	AUIPS6031STRL	
		Tape and reel right	800	AUIPS6031STRR	
	D-Pak-5-Leads	Tube	75	AUIPS6031R	
ALUDCCOOAD		Tape and reel	2000	AUIPS6031RTR	
AUIPS6031R		Tape and reel left	3000	AUIPS6031RTRL	
		Tape and reel right	3000	AUIPS6031RTRR	



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#### **WORLD HEADQUARTERS:**

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International **TOR** Rectifier

# AUIPS6031(S)(R)

**Revision History** 

Revision	Date	Notes/Changes
В	September, 12th 2011	AU release
С	May 15, 2012	Add the test condition for the ICC (off) parameters



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