



# UAD92

**DIODE**

## SILICON DIODE

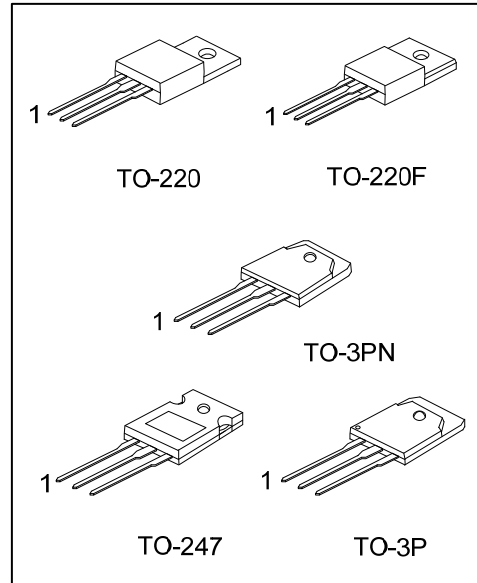
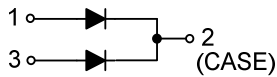
### DESCRIPTION

The UTC **UAD92** is a silicon diode, it uses UTC's advanced technology to provide customers with high average output current.

### FEATURES

- \* Low Forward Voltage
- \* Super high speed switching

### SYMBOL



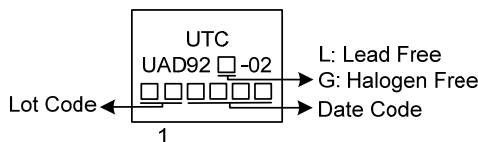
### ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
UAD92L-02-TA3-T	UAD92G-02-TA3-T	TO-220	A	K	A	Tube
UAD92L-02-TF3-T	UAD92G-02-TF3-T	TO-220F	A	K	A	Tube
UAD92L-02-T47-T	UAD92G-02-T47-T	TO-247	A	K	A	Tube
UAD92L-02-T3P-T	UAD92G-02-T3P-T	TO-3P	A	K	A	Tube
UAD92L-02-T3N-T	UAD92G-02-T3N-T	TO-3PN	A	K	A	Tube

Note: Pin Assignment: A: Anode K: Common Cathode

<p>UAD92G-02-T47-T</p> <p>(1) Packing Type (2) Package Type (3) <math>V_{RRM}</math> (4) Green Package</p>	<p>(1) T: Tube (2) TA3: TO-220, TF3: TO-220F, T47: TO-247, T3P: TO-3P, T3PN: TO-3PN (3) 02: 200V (4) G: Halogen Free and Lead Free, L: Lead Free</p>
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### MARKING



■ ABSOLUTE MAXIMUM RATINGS ( $T_A=25^{\circ}\text{C}$ , unless otherwise specified.)

PARAMETER			SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage			$V_{RRM}$	200	V
Average Output Current (Note 1)	50Hz Square Wave Duty=1/2, $T_C=115^{\circ}\text{C}$	Per Leg	$I_o$	10	A
		Total		20	
Non-Repetitive Forward Surge Current (Note 2)		Sine Wave, 10ms 1shot	$I_{FSM}$	100	A
Operating Junction Temperature			$T_J$	+150	$^{\circ}\text{C}$
Storage Temperature			$T_{STG}$	-40 ~ +150	$^{\circ}\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL RESISTANCE

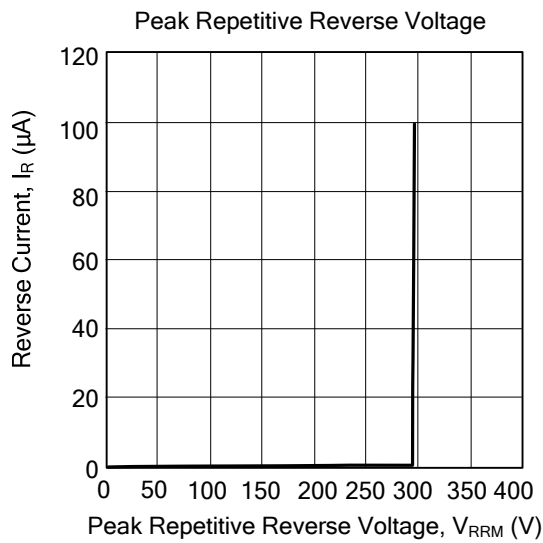
PARAMETER		SYMBOL	RATINGS	UNIT
Junction to Case	TO-220	$\theta_{JC}$	2.0	$^{\circ}\text{C}/\text{W}$
	TO-220F		4.0	$^{\circ}\text{C}/\text{W}$
	TO-247		1.5	$^{\circ}\text{C}/\text{W}$
	TO-3P/TO-3PN		1.45	$^{\circ}\text{C}/\text{W}$

■ ELECTRICAL CHARACTERISTICS (Note 2) ( $T_A=25^{\circ}\text{C}$ , unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	$V_F$	$I_F=10\text{A}$			0.95	V
Reverse Current	$I_R$	$V_R=V_{RRM}$			200	$\mu\text{A}$
Reverse Recovery Time	$t_{rr}$	$I_F=1\text{A}$ , $V_R=30\text{A}$ , $di/dt=50\text{A}/\mu\text{s}$		47		ns
Reverse Recovery Charge	$Q_{rr}$	$I_F=1\text{A}$ , $V_R=30\text{A}$ , $di/dt=50\text{A}/\mu\text{s}$		18		nC

Notes: 1. Out put current of center tap full wave connection.  
2. Rating per element

## ■ TYPICAL CHARACTERISTICS



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