



## ABS2 THRU ABS10

## SCHOTTKY BRIDGE

### 0.8A SCHOTTKY BRIDGE RECTIFIER

#### DESCRIPTION

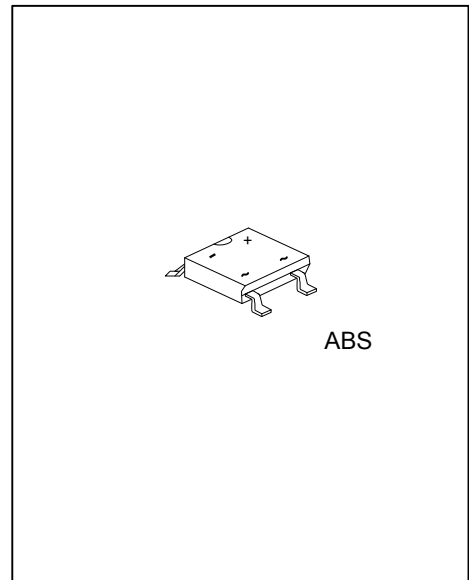
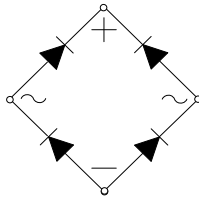
The UTC **ABS2 THRU ABS10** is a schottky bridge rectifiers, it uses UTC's advanced technology to provide customers with high surge current capability and low forward voltage drop, etc.

The UTC **ABS2 THRU ABS10** is suitable for surface mount application.

#### FEATURES

- \* Glass passivated die construction
- \* Low forward voltage drop
- \* High current capability
- \* High surge current capability
- \* Designed for surface mount application

#### SYMBOL



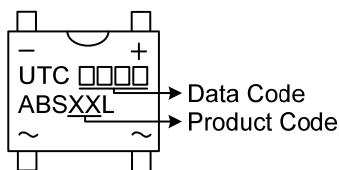
ABS

#### ORDERING INFORMATION

Ordering Number	Package	Packing
ABS2L-ABS-R	ABS	Tape Reel
ABS4L-ABS-R	ABS	Tape Reel
ABS6L-ABS-R	ABS	Tape Reel
ABS8L-ABS-R	ABS	Tape Reel
ABS10L-ABS-R	ABS	Tape Reel

<p>ABS2L-ABS-R</p> <p>(1)Packing Type</p> <p>(2)Package Type</p> <p>(3)Green Package</p>	<p>(1) R: Tape Reel</p> <p>(2) ABS: ABS</p> <p>(3) L: Lead Free</p>
--	---

#### MARKING



# ABS2 THRU ABS10

## SCHOTTKY BRIDGE

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

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	RATINGS					UNIT	
		ABS2	ABS4	ABS6	ABS8	ABS10		
Peak Repetitive Reverse Voltage	$V_{RRM}$	200	400	600	800	1000	V	
Working Peak Reverse Voltage	$V_{RWM}$	200	400	600	800	1000	V	
DC Blocking Voltage	$V_{DC}$	200	400	600	800	1000	V	
RMS Voltage	$V_{RMS}$	140	280	420	560	700	V	
Average Rectified Output Current	$I_o$	$T_A=30^{\circ}\text{C}$ (Note 2)					0.5	A
		$T_A=30^{\circ}\text{C}$ (Note 3)					0.8	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	$I_{FSM}$	30					A	
Operating Junction Temperature Range	$T_J$	-55~+150					$^{\circ}\text{C}$	
Storage Temperature Range	$T_{STG}$	-55~+150					$^{\circ}\text{C}$	

Notes: 1. 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.

2. Mounted on glass epoxy pc board with  $1.3\text{mm}^2$  solder pad.

3. Mounted on aluminum substrate PC board with  $1.3\text{mm}^2$  solder pad.

### ■ THERMAL DATA

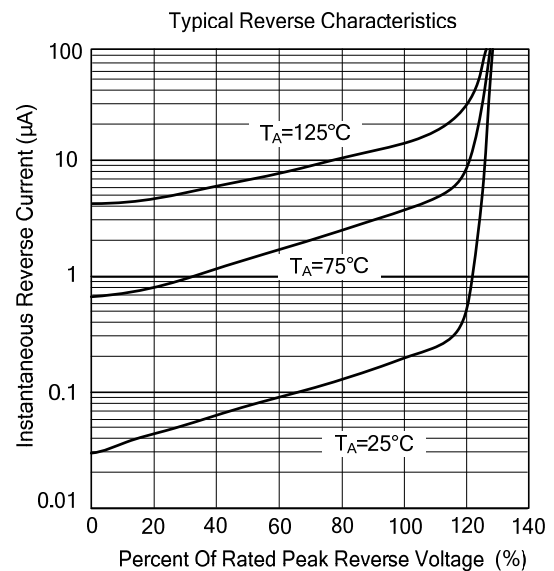
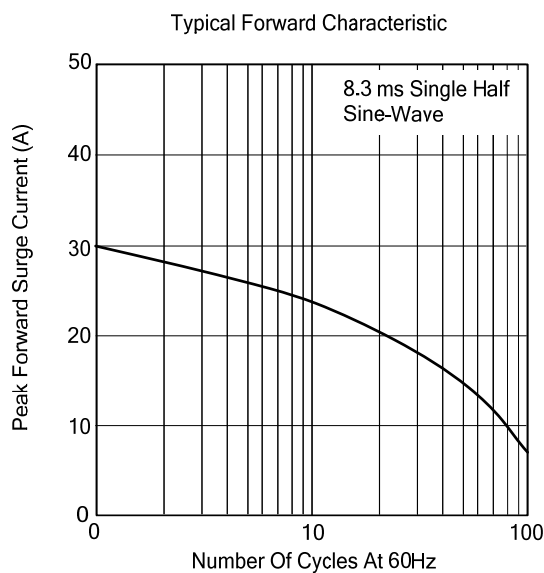
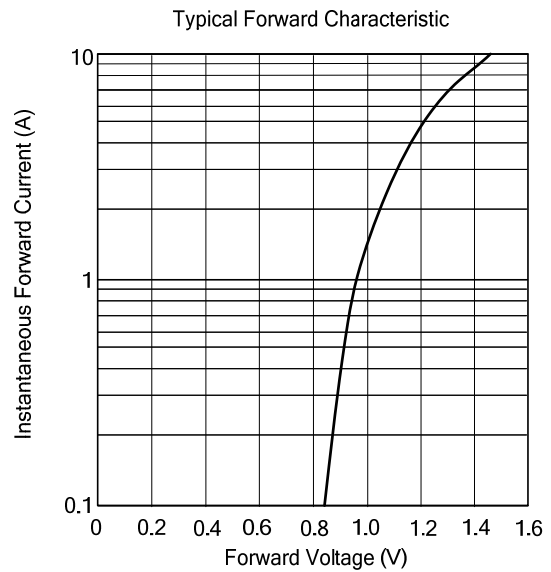
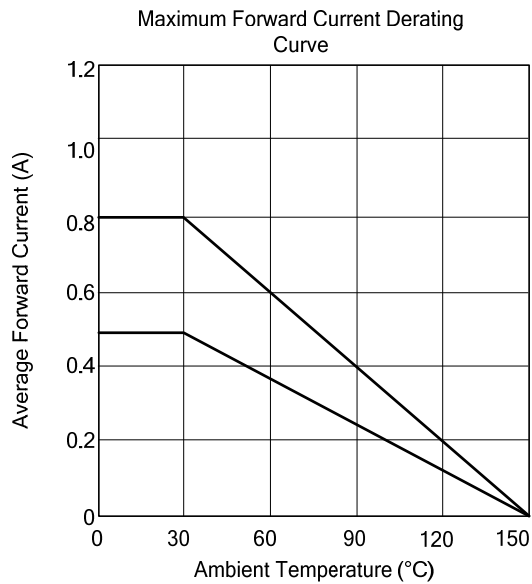
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	$\theta_{JA}$	62.5	$^{\circ}\text{C}/\text{W}$

Note: Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

### ■ ELECTRICAL CHARACTERISTICS ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage (Note 1)	$V_F$	$I_F=0.4\text{A}$			0.95	V
DC Reverse Current at Rated DC Blocking Voltage (Note 2)	$I_R$	$T_J=25^{\circ}\text{C}$			5.0	$\mu\text{A}$
		$T_J=125^{\circ}\text{C}$			500	$\mu\text{A}$

## ■ TYPICAL CHARACTERISTICS



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.