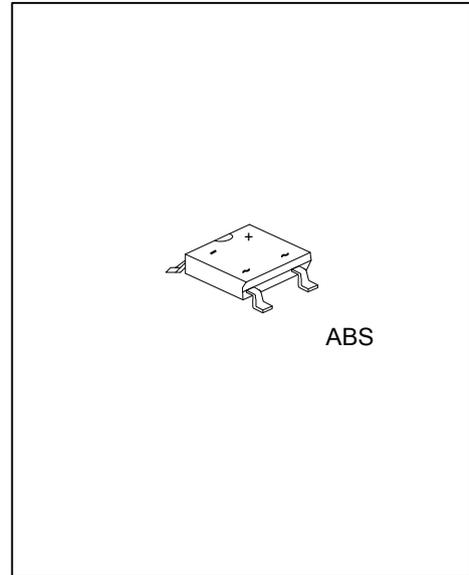




## ABS22 THRU ABS210

## BRIDGE DIODE

SINGLE PHASE 2.0A  
SURFACE MOUNT GLASS  
PASSIVATED BRIDGE  
RECTIFIER



### DESCRIPTION

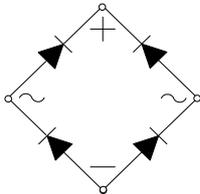
The UTC **ABS22 THRU ABS210** is a bridge rectifier, it uses UTC's advanced technology to provide customers with high surge current capability and low forward voltage drop, etc.

The UTC **ABS22 THRU ABS210** 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



### ORDERING INFORMATION

Ordering Number		Package	Packing
Lead Free	Halogen Free		
ABS22L-ABS-R	ABS22G-ABS-R	ABS	Tape Reel
ABS24L-ABS-R	ABS24G-ABS-R	ABS	Tape Reel
ABS26L-ABS-R	ABS26G-ABS-R	ABS	Tape Reel
ABS28L-ABS-R	ABS28G-ABS-R	ABS	Tape Reel
ABS210L-ABS-R	ABS210G-ABS-R	ABS	Tape Reel

<p>ABS22G-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) G: Halogen Free and Lead Free, L: Lead Free</p>
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■ 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
		ABS22	ABS24	ABS26	ABS28	ABS210	
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	$I_O$	2					A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	$I_{FSM}$	60					A
Operating Junction Temperature Range	$T_J$	-55 ~ +150					$^{\circ}\text{C}$
Storage Temperature Range	$T_{STG}$	-55 ~ +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 DATA

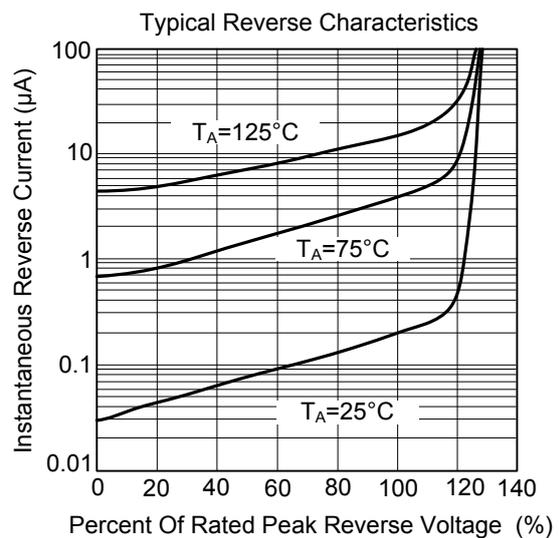
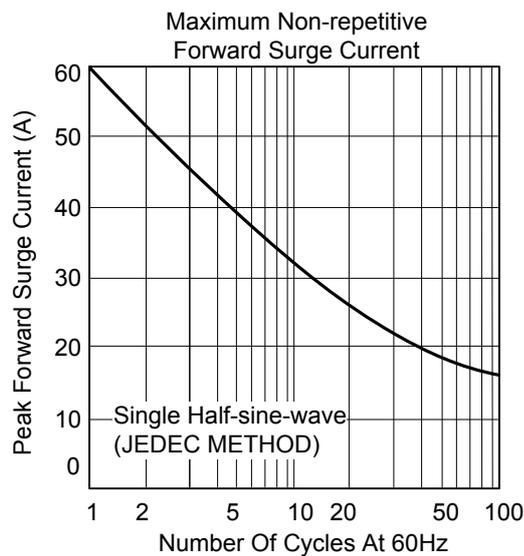
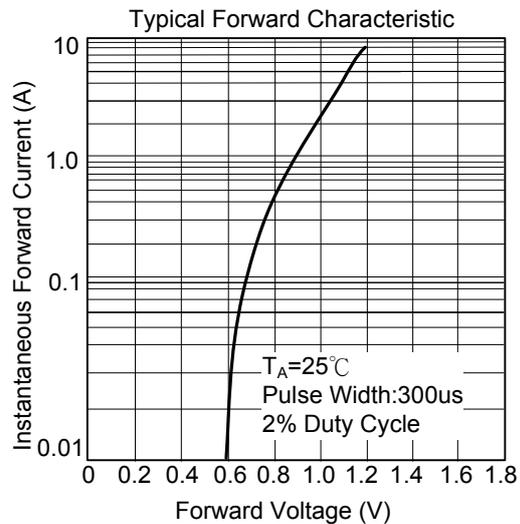
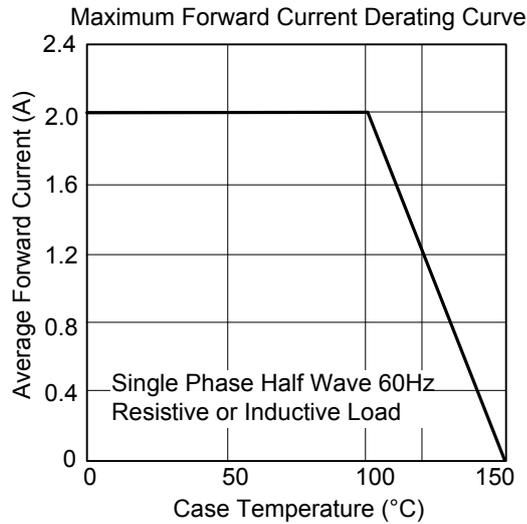
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	$\theta_{JA}$	62.5	$^{\circ}\text{C}/\text{W}$

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
Forward Voltage Per Element	$V_F$	$I_F=1.0\text{A}$			0.95	V
		$I_F=2.0\text{A}$			1.0	V
Peak Reverse Current at Rated DC Blocking Voltage	$I_R$	$T_A=25^{\circ}\text{C}$			5.0	$\mu\text{A}$
		$T_A=125^{\circ}\text{C}$			200	$\mu\text{A}$

### ■ 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. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.