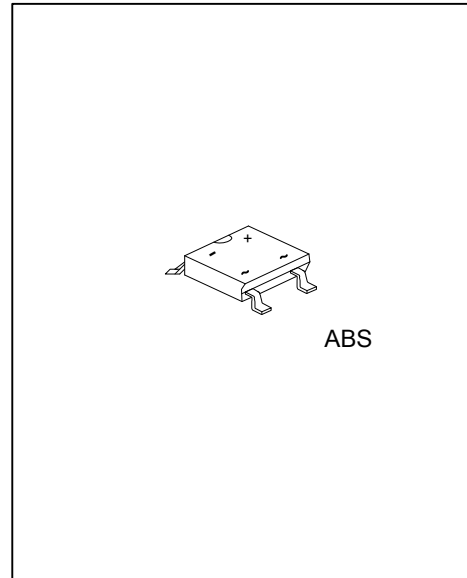




## ABS2 THRU ABS10

BRIDGE DIODE

SINGLE PHASE 0.8A  
SURFACE MOUNT GLASS  
PASSIVATED BRIDGE  
RECTIFIER



### DESCRIPTION

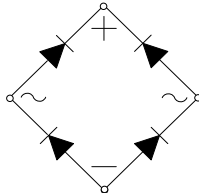
The UTC **ABS2 THRU ABS10** is a bridge rectifiers, it uses UTC's advanced technology to provide customers with high surge current capability and low forward voltage drop, etc.

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

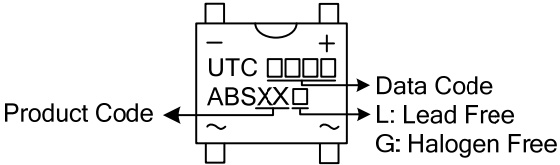


### ORDERING INFORMATION

Ordering Number		Package	Packing
Lead Free	Halogen Free		
ABS2L-ABS-R	ABS2G-ABS-R	ABS	Tape Reel
ABS4L-ABS-R	ABS4G-ABS-R	ABS	Tape Reel
ABS6L-ABS-R	ABS6G-ABS-R	ABS	Tape Reel
ABS8L-ABS-R	ABS8G-ABS-R	ABS	Tape Reel
ABS10L-ABS-R	ABS10G-ABS-R	ABS	Tape Reel

<p>ABS2G-ABS-R</p> <ul style="list-style-type: none"> <li>(1) Packing Type</li> <li>(2) Package Type</li> <li>(3) Green Package</li> </ul>	<ul style="list-style-type: none"> <li>(1) R: Tape Reel</li> <li>(2) ABS: ABS</li> <li>(3) G: Halogen Free and Lead Free, L: Lead Free</li> </ul>
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■ MARKING



■ 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	$T_A=30^{\circ}\text{C}$ (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

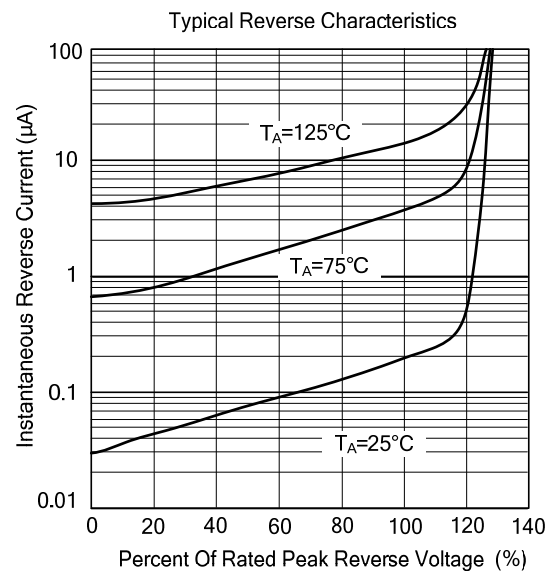
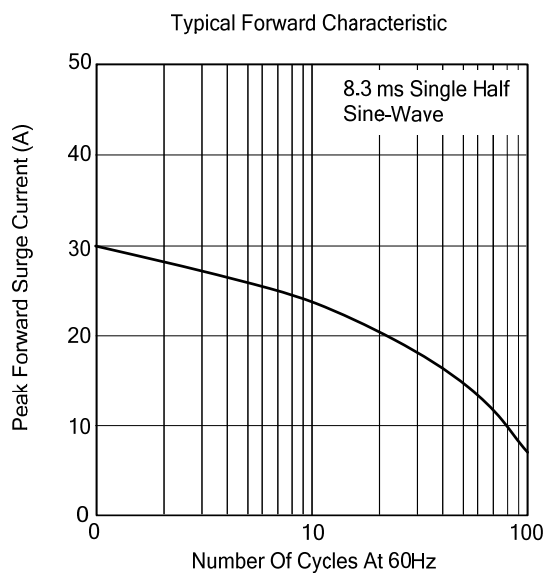
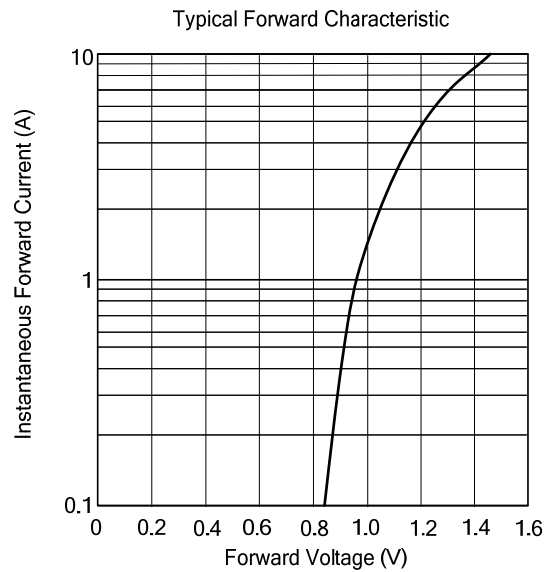
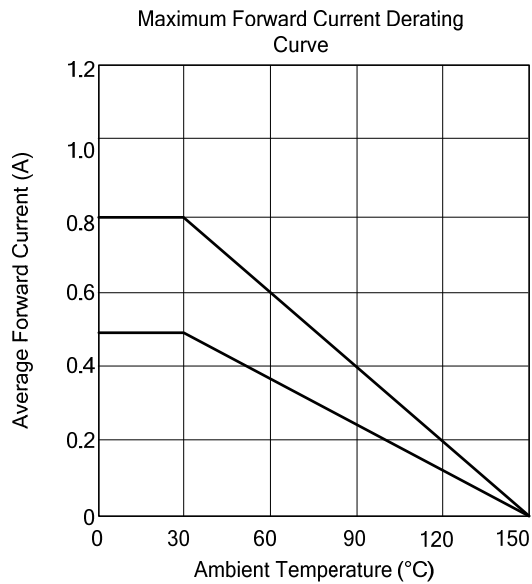
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	$\theta_{JA}$	62.5	$^{\circ}\text{C}/\text{W}$

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



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