



UYBS3010

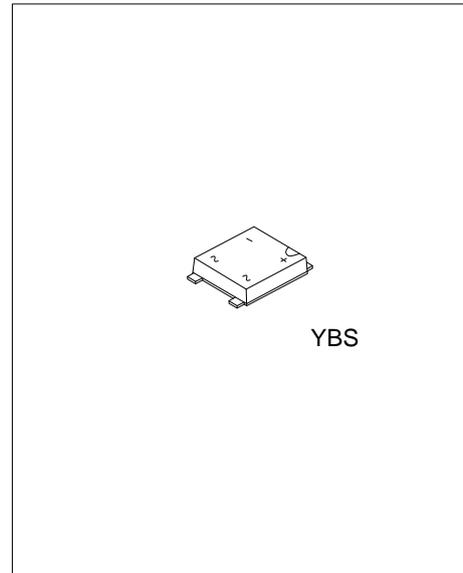
BRIDGE RECTIFIER

SURFACE MOUNT GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIER

DESCRIPTION

The UTC **UYBS3010** is a single phase bridge rectifiers, it uses UTC's advanced technology to provide customers with high surge current capability, etc.

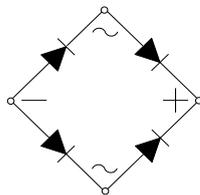
The UTC **UYBS3010** is suitable for AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, battery charger, home appliances, office equipment, and telecommunication applications.



FEATURES

- * Glass passivated die construction
- * Low forward voltage drop

SYMBOL

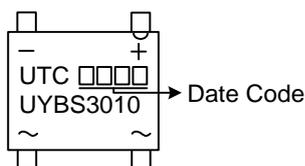


ORDERING INFORMATION

Ordering Number		Package	Packing
Lead Free	Halogen Free		
UYBS3010L-YBS-R	UYBS3010G-YBS-R	YBS	Tube

UYBS3010G-YBS-R	(1)Packing Type	(1) R: Tape Reel
	(2)Package Type	(2) YBS: YBS
	(3)Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free

MARKING



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise noted)

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

For capacitance load, derate current by 20%.

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V _{DC}	1000	V
RMS Voltage	V _{RMS}	700	V
Repetitive Peak Reverse Voltage	V _{RRM}	1000	V
Average rectified output current @ 60Hz sine wave, R-load, T _C 110°C	I _O	3.0	A
Surge(non-repetitive)forward current @ 60HZ half sine wave, 1 cycle, T _J =25°C	I _{FSM}	110	A
Current squared time @ 1ms ≤ t < 8.3ms), T _J =25°C, Rating of per diode	I ² T	50.21	A ² s
Operating Junction Temperature Range (Note 2)	T _J	-55 ~ +125	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°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

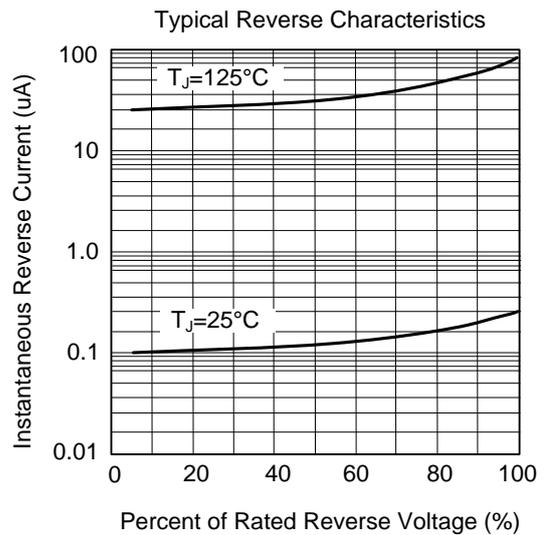
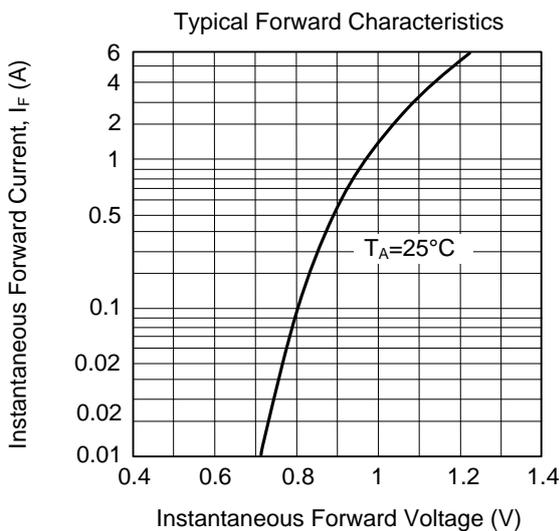
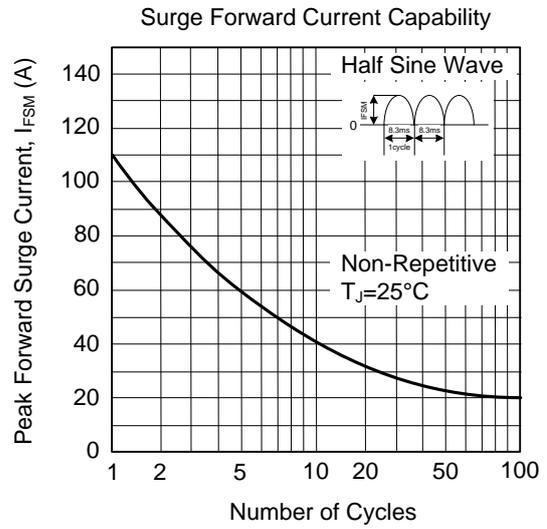
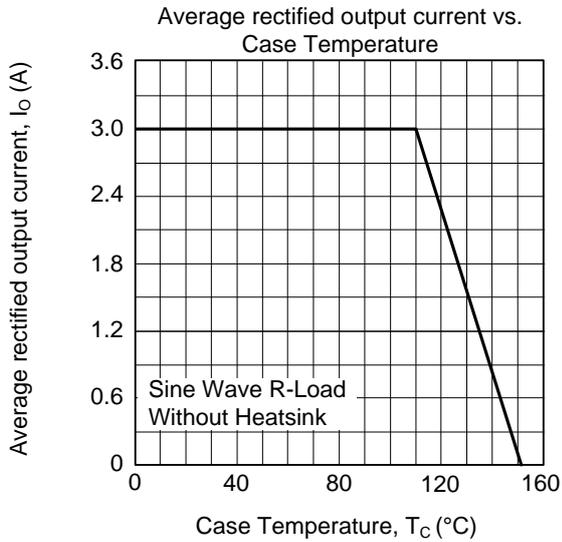
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ _{JA}	55	°C/W
Junction to Case	θ _{JC}	10	°C/W

Note: Mounted on glass epoxy pc board with 1.3mm² solder pad.

■ ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage (Note 1)	V _F	I _F =1.5A			1	V
DC Reverse Current at Rated DC Blocking Voltage	I _R	T _J =25°C			5	μA
		T _J =100°C			100	μA

■ 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.