



UYBS3010

BRIDGE RECTIFIER

SURFACE MOUNT GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIER

■ DESCRIPTION

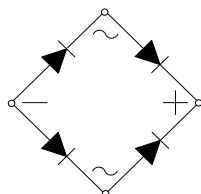
The UTC **UYBS3010** is a single phase bridge rectifiers, it uses UTC's advanced technology to provide customers with high surge current capability, etc.

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

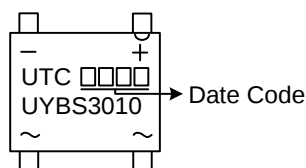


■ ORDERING INFORMATION

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

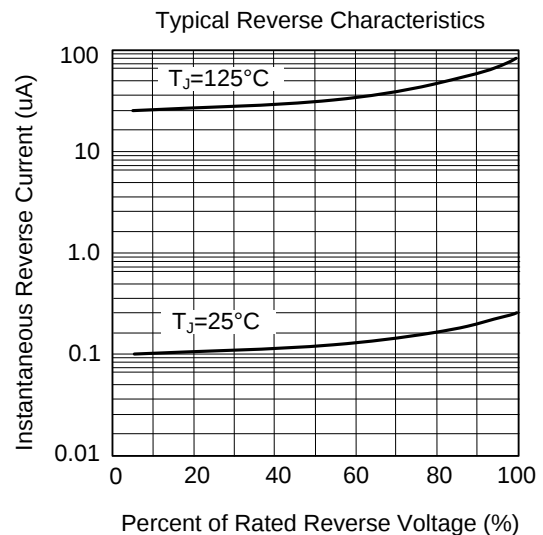
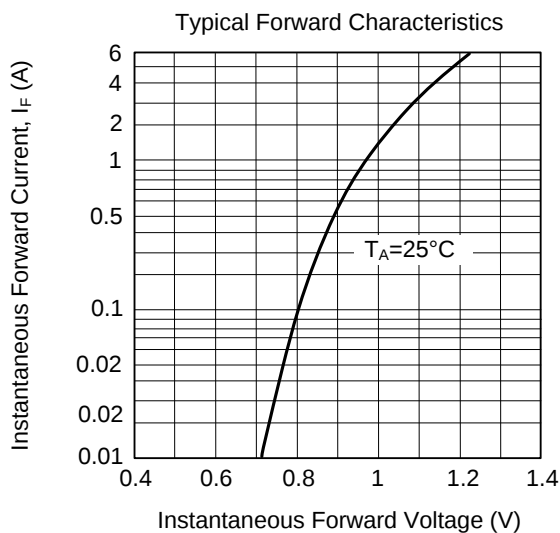
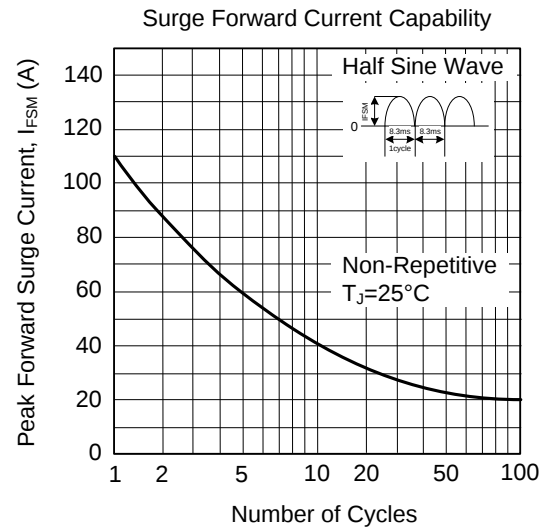
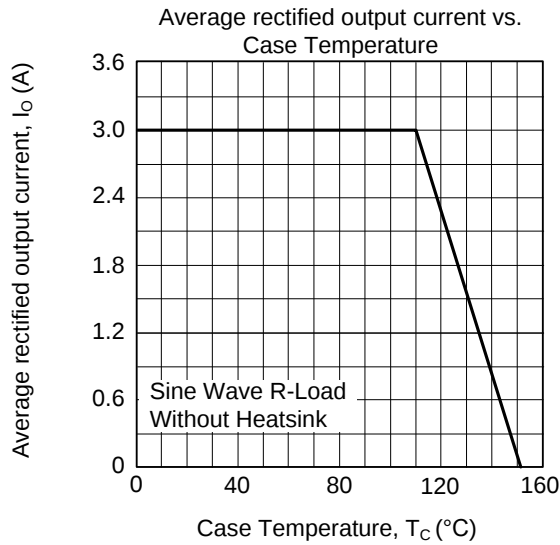
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ _{JA}	55	°C/W
Junction to Case	θ _{JC}	10	°C/W

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



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