ETR37002-001

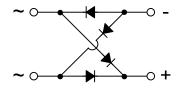
Single-Phase Bridge Rectifier

■FEATURES

■APPLICATIONS

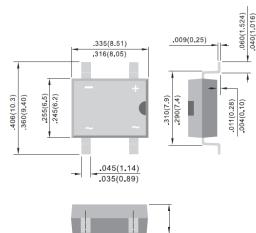
- ●LED Lighting
- Power supply module
- ●AC Adapter, Battery charger
- Home appliances

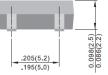
■PIN CONFIGURATION



■ PACKAGING INFORMATION

●SDIP Unit: inch (mm)





■ABSOLUTE MAXIMUM RATINGS

Ta=25°C

PARAMETER	SYMBOL	XBR12			LINUTO
		A6	A8	A10	UNITS
Repetitive Peak Reverse Voltage	V _{RM}	600	800	1000	V
RMS Voltage	V _{RMS}	420	560	700	V
Reverse Voltage (DC)	VR	600	800	1000	V
Forward Current (Average) at Ta=40°C (*1)	I _{F(AV)}	1.5			Α
Non Continuous Forward Surge Current (8.3ms single half-sine wave)	I _{FSM}	50		Α	
Rating for fusing (t<8.3ms)	l²t	10		A ² ·s	
Junction Temperature	Tj	150		°C	
Storage Temperature	Tstg	-55 to +150		°C	

^{(*1) 60}Hz sine wave, Resistance load, PCB mounted

XBR12A Series

■ELECTRICAL CHARACTERISTICS

Ta=25°C

PARAMETER	CVMDOL	TEST COMPLIANC	LIMITS			LINITO
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F =1A, Pulse measurement, per diode	-	-	1.1	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, per diode	-	-	5.0	μA
Junction Capacitance	Сл	V _R =4V, f=1MHz, per diode	-	25	-	pF

■PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT	MARKING CODE
XBR12A6-G *	SDIP	3,000 / 2 Reels	DI156S
XBR12A8-G *	SDIP	3,000 / 2 Reels	DI158S
XBR12A10-G *	SDIP	3,000 / 2 Reels	DI1510S

^{*} The "-G" suffix denotes Halogen and Antimony free as well as being fully EU RoHS compliant.

■NOTES ON USE

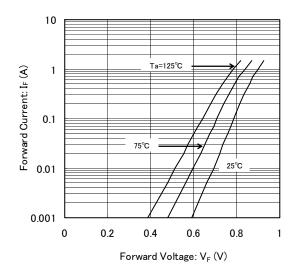
- Please use this IC within the absolute maximum ratings.
 Even within the ratings, in case of high load use continuously such as high temperature, high voltage, high current and thermal stress may cause reliability degradation of the IC.
- 2. Torex places an importance on improving our products and their reliability.

 We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

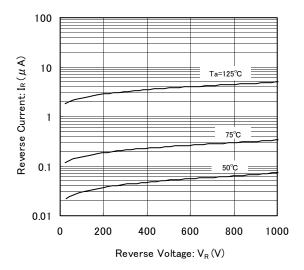
^{*} However, the product uses high-melting-point solder paste and lead glass, both of which are not compliant with EU RoHS.

■TYPICAL PERFORMANCE CHARACTERISTICS

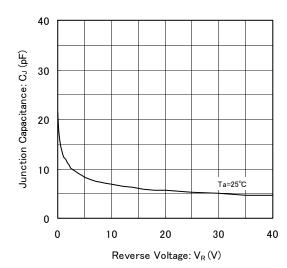
(1) Forward Current vs. Forward Voltage



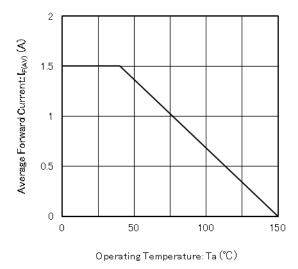
(2) Reverse Current vs. Reverse Voltage



(3) Junction Capacitance vs. Reverse Voltage



(4) Average Forward Current vs. Operating Temperature

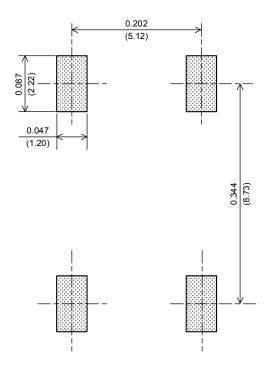


XBR12A Series

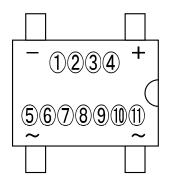
■REFERENCE PATTERN LAYOUT

● SDIP

Unit: inch (mm)

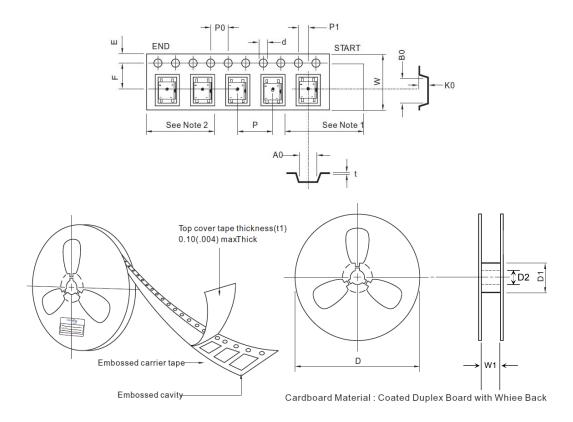


■MARKING



■TAPING SPECIFICATIONS

● SDIP



Note:

- 1. There shall be leader of 230mm minimum which may consist of carrier and or cover tape follower by a minimum of 160mm of carrier tape sealded with cover tape.
- 2. There shall be minimum of 160mm of empty component pockets sealded with cover tape.

SYMBOL	mm	
A0	8.64	_
В0	10.41	
d	1.55	
D	330.0	
D1	50.0	min.
D2	13.0	
E	1.75	
F	7.5	
K0	3.81	
Р	12.0	
P0	4.0	
P1	2.0	
t	0.32	
W	16.0	
W1	16.4	

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