

XBF10A60S-G

ETR42003-001

1.0A Fast Recovery Rectifier

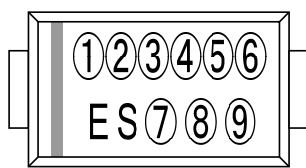
FEATURES

Forward Current	: $I_{F(AV)}=1.0A$
Reverse Recovery Time	: $t_{rr}=35ns$ (TYP.)
Environmentally Friendly	: EU RoHS Compliant

APPLICATIONS

- LED lighting
- Power supply module
- AC adapter, Battery charger

MARKING



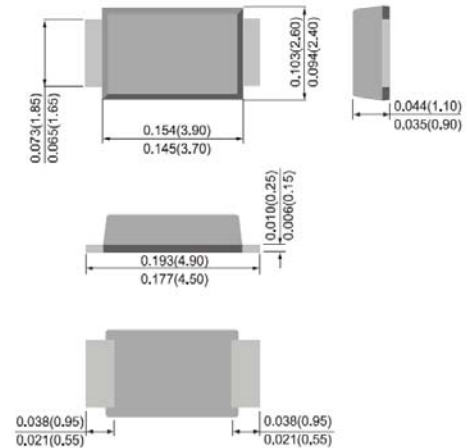
①②③④⑤⑥ : Control Number
⑦⑧⑨ : Marking Code



PACKAGING INFORMATION

- SMAF

Unit : inch (mm)



ABSOLUTE MAXIMUM RATINGS

Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNITS
Repetitive Peak Reverse Voltage	V_{RM}	600	V
RMS Voltage	V_{RMS}	420	V
Reverse Voltage (DC)	V_R	600	V
Forward Current (Average)	$I_{F(AV)}$	1	A
Non Continuous Forward Surge Current ^(*)	I_{FSM}	30	A
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55~ +150	°C

(*) 60Hz single half sine wave

ELECTRICAL CHARACTERISTICS

Ta=25°C

PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNITS
			MIN.	TYP.	MAX.	
Forward Voltage	V_F	$I_F=1A$, Pulse measurement	-	-	1.7	V
Reverse Current	I_R	$V_R=V_{RM}$	-	-	1	μA
Terminal Capacitance	C_t	$V_R=4V$, $f=1MHz$	-	15	-	pF
Reverse Recovery Time	t_{rr}	$I_F=0.5A$, $I_R=1A$, $i_{rr}=0.25A$	-	-	35	ns

XBF10A60S-G

■ PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT	MARKING CODE
XBF10A60S-G *	SMAF	3,000pcs / Reel	1JF

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

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

■ NOTES ON USE

1. 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.

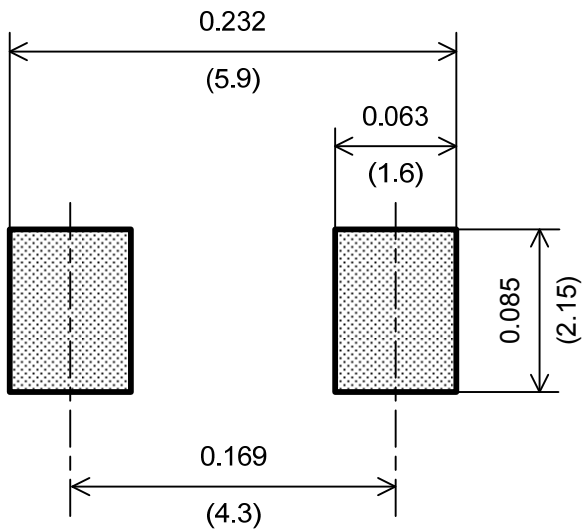
2. Torex places an importance on improving our products and their reliability.

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

■ REFERENCE PATTERN LAYOUT

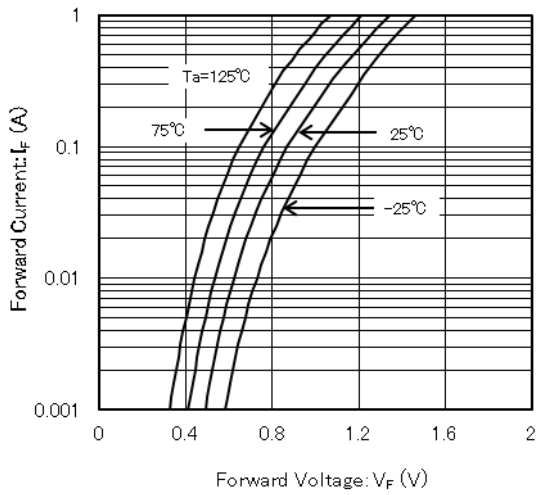
● SMAF

Unit : inch (mm)

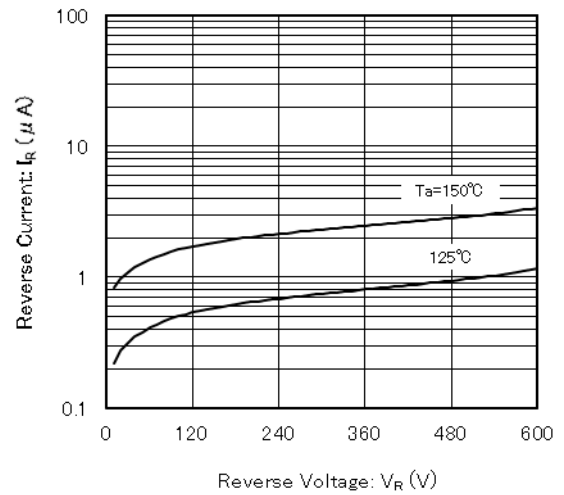


TYPICAL PERFORMANCE CHARACTERISTICS

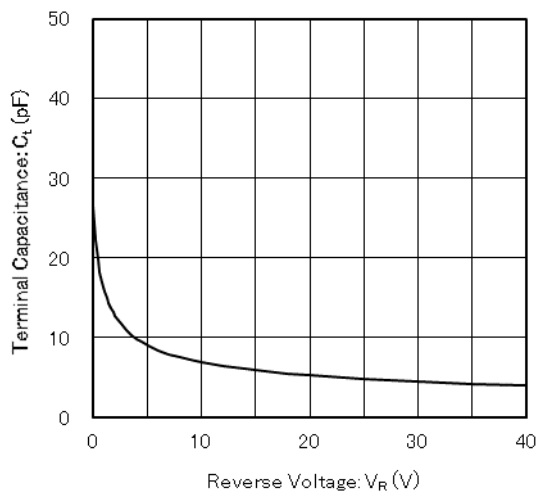
(1) Forward Current vs. Forward Voltage



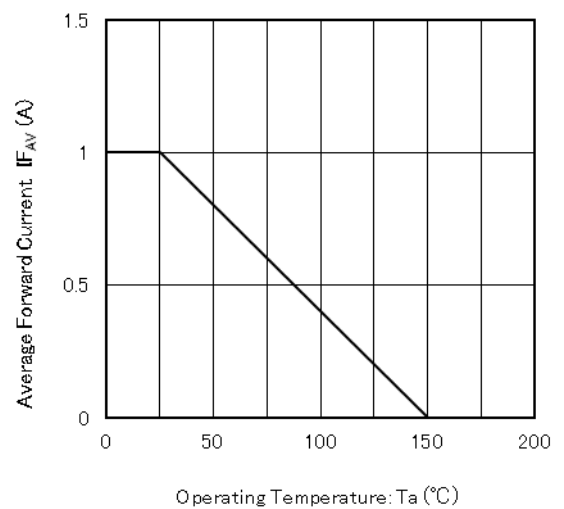
(2) Reverse Current vs. Reverse Voltage



(3) Terminal Capacitance vs. Reverse Voltage



(4) Average Forward Current vs. Operating Temperature

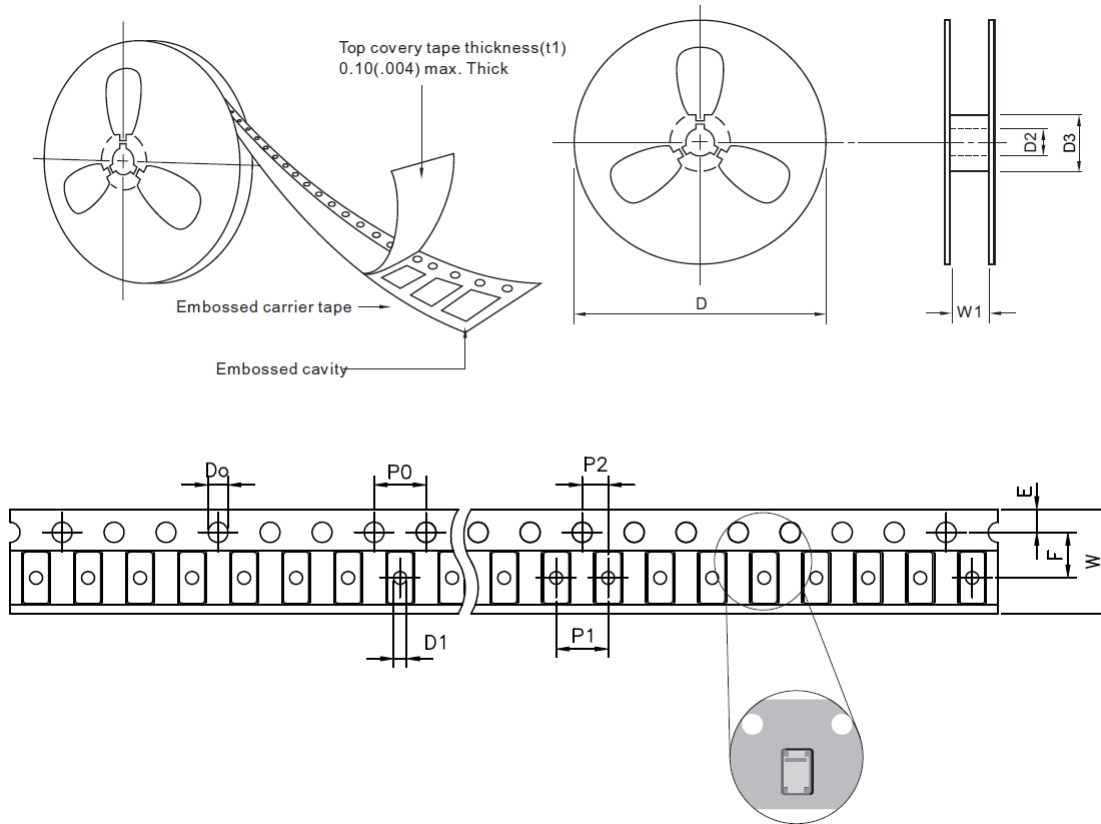


XBF10A60S-G

TAPING SPECIFICATIONS

●SMAF

Unit : mm



SYMBOL	mm
D_0	1.55 ± 0.05
D_1	1.00 ± 0.05
E	1.75 ± 0.10
F	5.50 ± 0.10
P_0	4.00 ± 0.10
P_1	4.00 ± 0.10
P_2	2.00 ± 0.05
W	12.0 ± 0.3
D_2	13.5 ± 0.5
D_3	min. 57.0
W_1	min. 13.7 , max. 16.7
D	178.0 ± 2.0

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4. The product is neither intended nor warranted for use in equipment of systems which require extremely high levels of quality and/or reliability and/or a malfunction or failure which may cause loss of human life, bodily injury, serious property damage including but not limited to devices or equipment used in 1) nuclear facilities, 2) aerospace industry, 3) medical facilities, 4) automobile industry and other transportation industry and 5) safety devices and safety equipment to control combustions and explosions. Do not use the product for the above use unless agreed by us in writing in advance.
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