XBS013S1CR-G

TOREX

ETR1619-004

Schottky Barrier Diode, 100mA, 30V Type

■FEATURES

Ultra Small Package

■APPLICATIONS

●Low Current Rectification

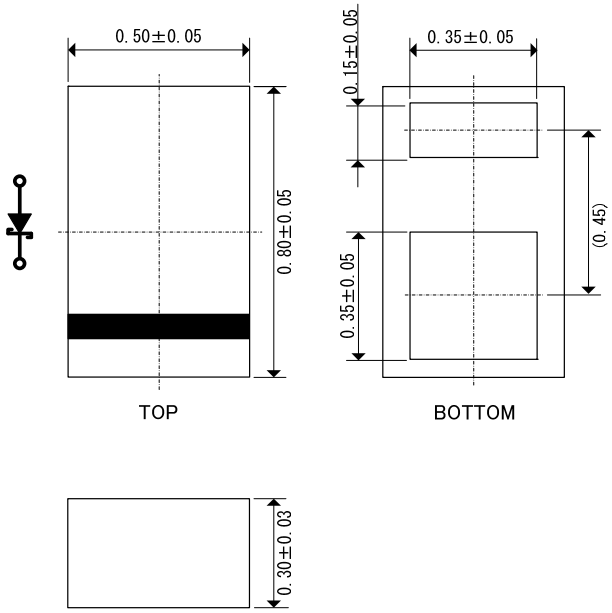
■ABSOLUTE MAXIMUM RATINGS

Ta=25℃

PARMETER	SYMBOL	RATINGS	UNITS
Repetitive Peak Voltage	V_{RM}	30	V
Reverse Voltage (DC)	V_R	30	V
Forward Current (Average)	$I_{F(AV)}$	100	mA
Peak Forward Surge Current *1	I_{FSM}	0.6	A
Junction Temperature	Tj	125	℃
Storage Temperature Range	Tstg	-55～+125	℃

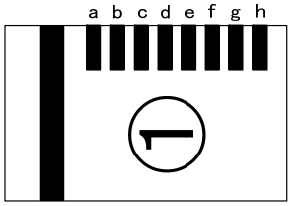
*1) 60Hz Half sine wave, 1 cycle, Non-Repetitive.

■PACKAGING INFORMATION



Unit: mm

■MARKING RULE



①：3(Product Number)

a,b,c,d,e,d,e,f,g,h：Lot Number

■PRODUCT NAME

PRODUCT NAME	PACKAGE
XBS013S1CR-G*	USP-2B02

* The “-G” suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant.

* The device orientation is fixed in its embossed tape pocket.

■ELECTRICAL CHARACTERISTICS

Ta=25℃

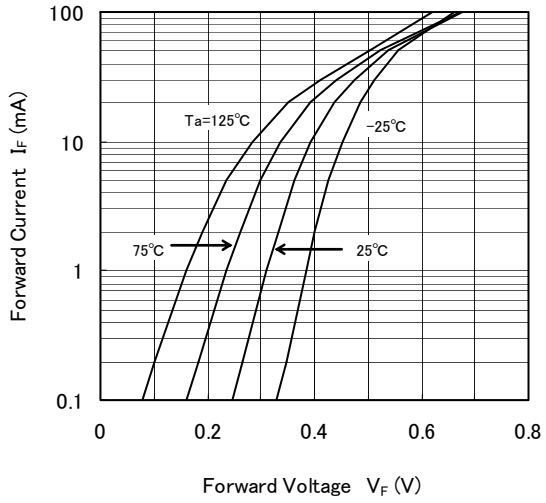
PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNITS
			MIN.	TYP.	MAX.	
Forward Voltage	V_{F1}	I_F=100mA	-	0.71	1	V
Reverse Current	I_R	V_R=25V	-	-	2	μA

●NOTES ON USE

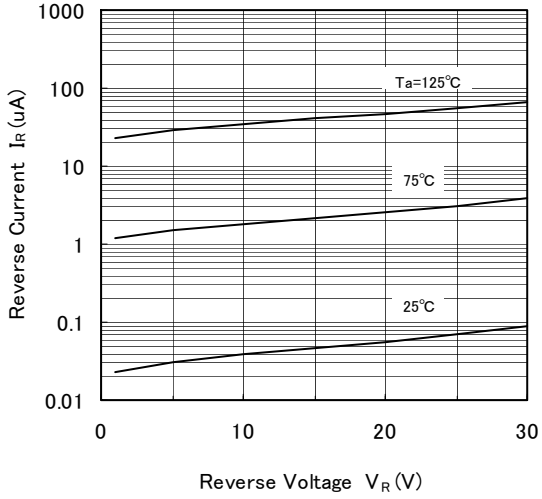
1. Please keep away from mechanical stress to the product when mounting or after mounting.
2. If the IC is mounted close to a board break line or fixed in screws, the IC or its electrodes may be caused damage as results of board deformation and mechanical stress.

■TYPICAL PERFORMANCE CHARACTERISTICS

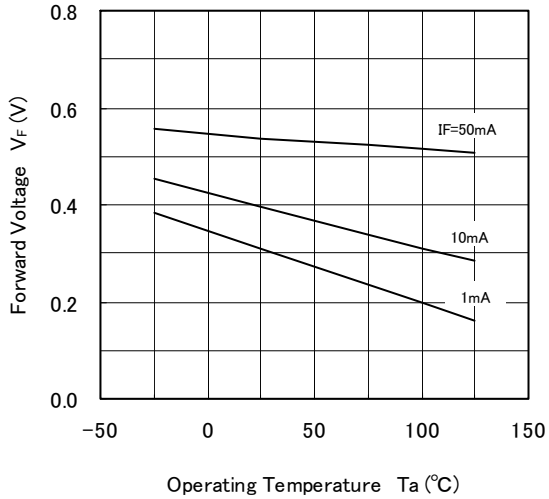
(1) Forward Current vs. Forward Voltage



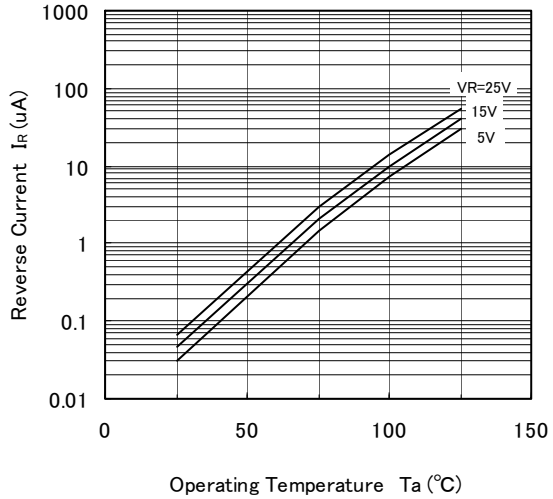
(2) Reverse Current vs. Reverse Voltage



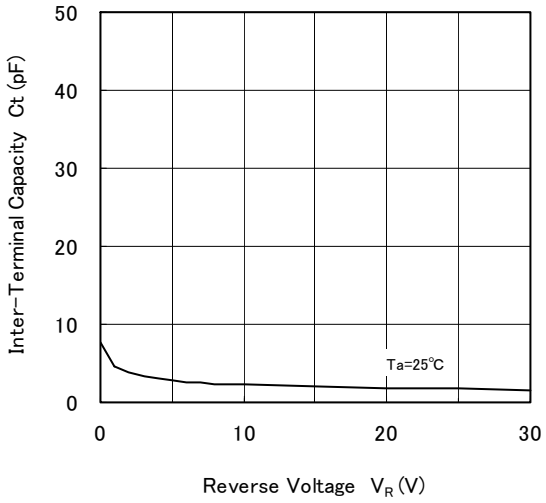
(3) Forward Voltage vs. Operating Temperature



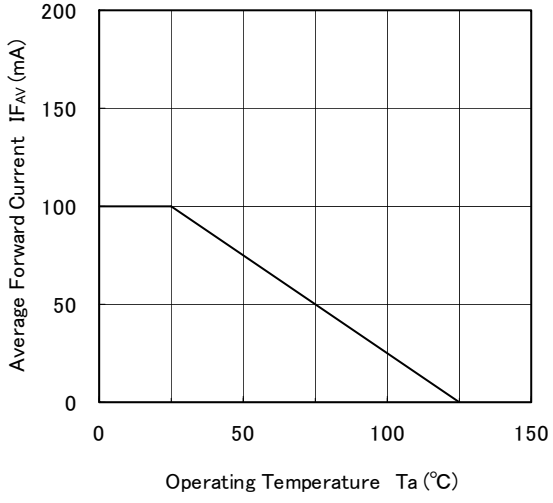
(4) Reverse Current vs. Operating Temperature



(5) Inter-Terminal Capacity vs. Reverse Voltage



(6) Average Forward Current vs. Operating Temperature



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