

Schottky Barrier Diode, 100mA, 30V Type

■ FEATURES

Forward Voltage : $V_F=0.71V$ (TYP.)
 Forward Current : $I_{F(AV)}=100mA$
 Repetitive Peak Reverse Voltage: $V_{RM}=30V$

■ APPLICATIONS

- Low Current Rectification

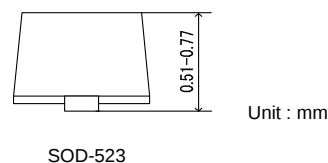
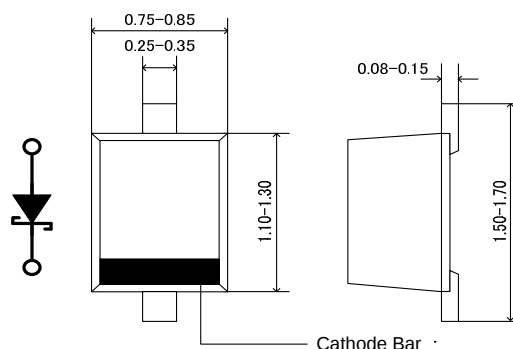
■ ABSOLUTE MAXIMUM RATING

$T_a=25$

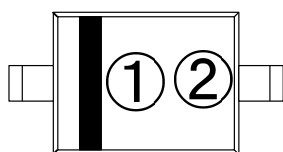
PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	V_{RM}	30	V
Reverse Voltage (DC)	V_R	30	V
Forward Current (Average)	$I_{F(AV)}$	100	mA
Non Continuous Forward Surge Current ^{*1}	I_{FSM}	0.6	A
Junction Temperature	T_j	125	
Storage Temperature Range	T_{stg}	-55 ~ +150	

*1 : Non continuous high amplitude 60Hz half -sine wave.

■ PACKAGING INFORMATION



■ MARKING RULE



: 0 (Product Number)
 : Assembly Lot Number

■ PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION
XBS013S15□ [*]	R : Embossed tape, standard feed

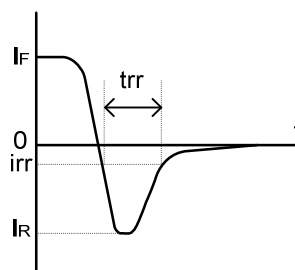
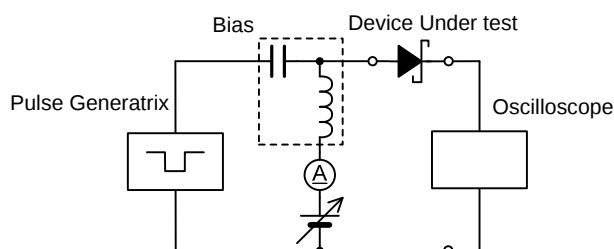
* □ Please put the device orientation type "R".

■ ELECTRICAL CHARACTERISTICS

$T_a=25$

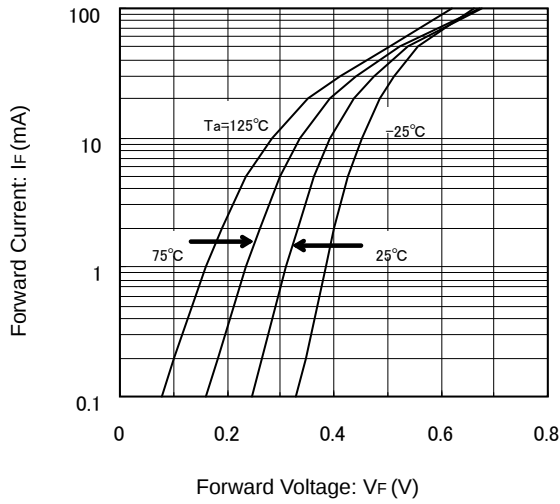
PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNIT
			MIN.	TYP.	MAX.	
Forward Voltage	V_{F1}	$I_F=1mA$	-	0.31	-	V
	V_{F2}	$I_F=100mA$	-	0.71	1	V
Reverse Current	I_R	$V_R=25V$	-	-	2	μA
Inter-Terminal Capacity	C_t	$V_R=0V, f=1MHz$	-	6	-	pF
Reverse Recovery Time ^{*2}	t_{rr}	$I_F=I_R=10mA, irr=1mA$	-	2	-	ns

*2 : t_{rr} measurement circuit

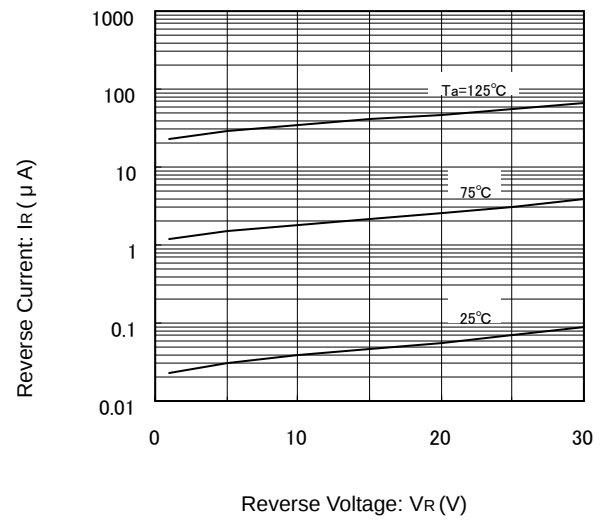


■ TYPICAL PERFORMANCE CHARACTERISTICS

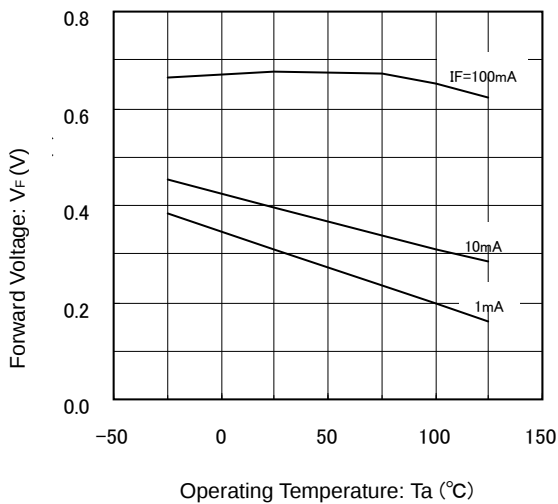
(1) Forward Current vs. Forward Voltage



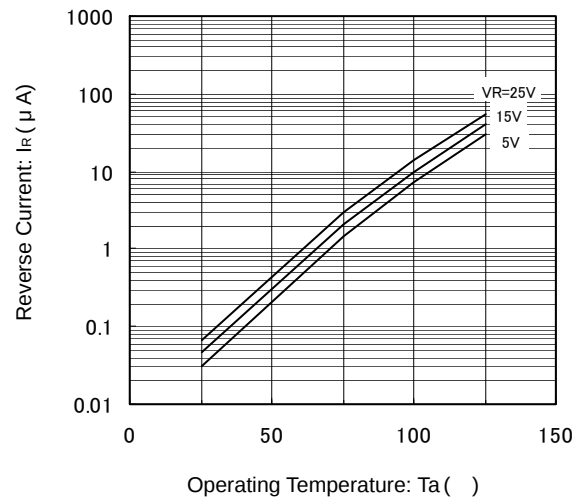
(2) Reverse Current vs. Reverse Voltage



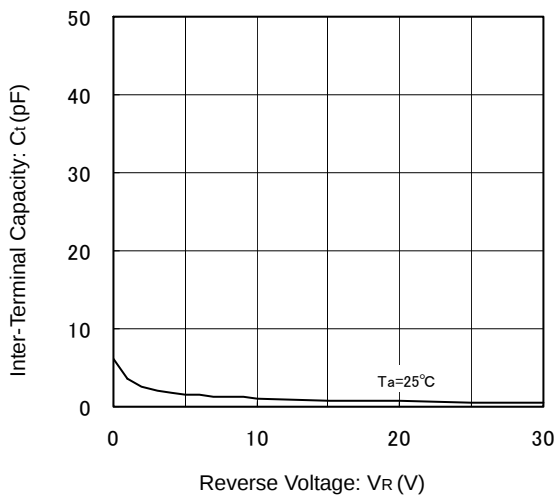
(3) Forward Voltage vs. Operating Temperature



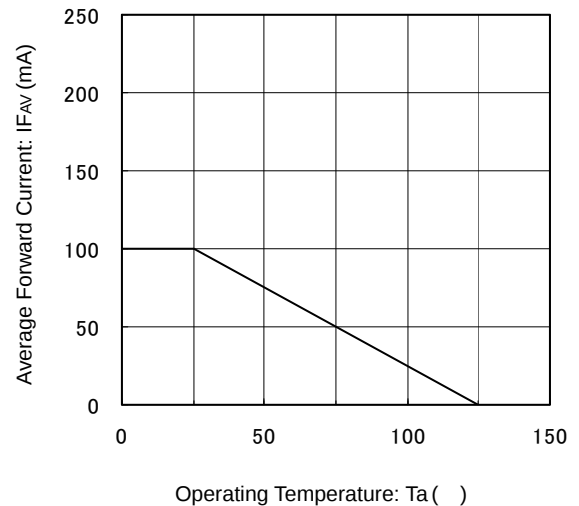
(4) Reverse Current vs. Operating Temperature



(5) Inter-Terminal Capacity vs. Reverse Voltage



(6) Average Forward Current vs. Operating Temperature



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