

#### Schottky Barrier Diode, 200mA, 40V Type

### ■FEATURES

Environmentally Friendly

Forward Voltage

: V<sub>F</sub>=0.53V (TYP.)

Forward Current

: I<sub>F(AV)</sub>=200mA

Repetitive Peak Reverse Voltage : V<sub>RM</sub>=40V

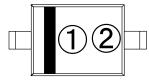
: EU RoHS Compliant, Pb Free

# ■ABSOLUTE MAXIMUM RATINGS

			1a=25 C
PARMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Voltage	Vrm	40	V
Reverse Voltage (DC)	Vr	40	V
Forward Current (Average)	IF(AV)	200	mA
Non Continuous	IFSM	1	А
Forward Surge Current <sup>*1</sup>			
Junction Temperature	Tj	125	°C
Storage Temperature Range	Tstg	-55~+150	°C

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

# ■MARKING RULE



(1): 1 (Product Number)

2: Assembly Lot Number

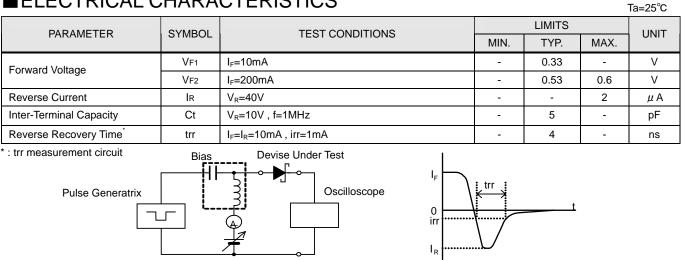
#### ■PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION	
XBS024S15R	SOD-523	
XBS024S15R-G	SOD-523(Halogen & Antimony free)	

\* 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.

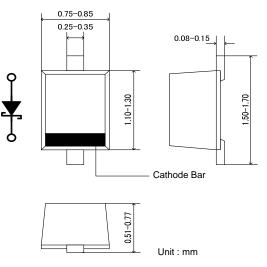
# ELECTRICAL CHARACTERISTICS



# ■ APPLICATIONS

Low Current Rectification

# PACKAGING INFORMATION





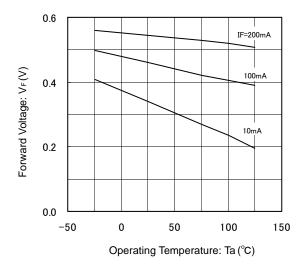
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#### ■TYPICAL PERFORMANCE CHARACTERISTICS

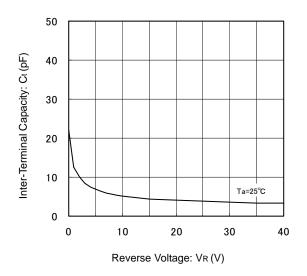
(1) Forward Current vs. Forward Voltage

1000 1000 100 100 100 10 10  $75^{\circ}C$   $75^{\circ}C$   $25^{\circ}C$   $25^{\circ}C$  0.1 0.2 0.4 0.6Forward Voltage: VF (V)

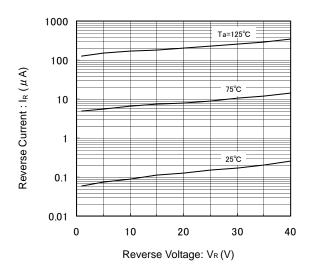
(3) Forward Voltage vs. Operating Temperature



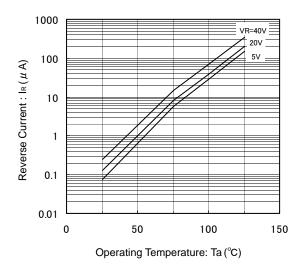
(5) Inter-Terminal Capacity vs. Reverse Voltage



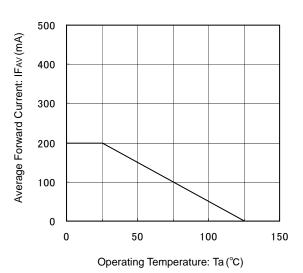
(2) Reverse Current vs. Reverse Voltage



(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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