XBS024S15R-G

ETR16005-004

Schottky Barrier Diode, 200mA, 40V Type

■FEATURES

Forward Voltage : V_F=0.53V (TYP.)

Forward Current : $I_{F(AV)}$=200mA

Repetitive Peak Reverse Voltage : V_{RM}=40V

Environmentally Friendly : EU RoHS Compliant, Pb Free

■APPLICATIONS

●Low Current Rectification

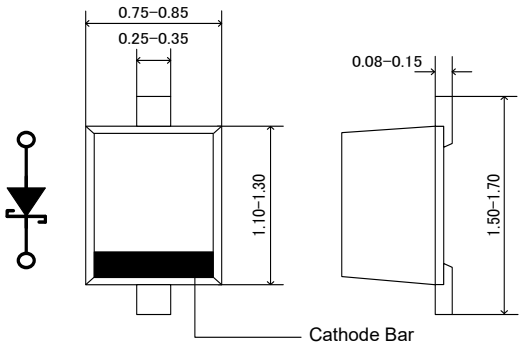
■ABSOLUTE MAXIMUM RATINGS

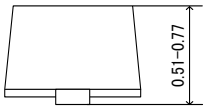
Ta=25℃

PARMETER	SYMBOL	RATINGS	UNITS
Repetitive Peak Voltage	V_{RM}	40	V
Reverse Voltage (DC)	V_R	40	V
Forward Current (Average)	$I_{F(AV)}$	200	mA
Non Continuous Forward Surge Current*1	I_{FSM}	1	A
Junction Temperature	Tj	125	℃
Storage Temperature Range	Tstg	-55～+150	℃

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

■PACKAGING INFORMATION

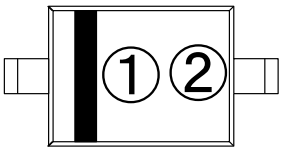




Unit : mm

SOD-523

■MARKING RULE



■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.

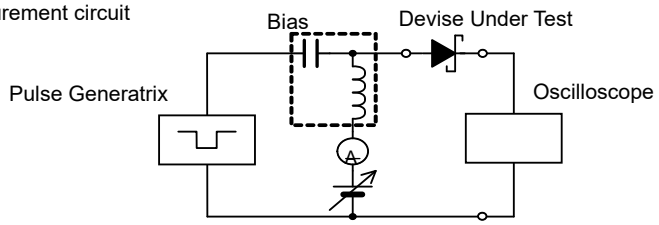
* The device orientation is fixed in its embossed tape pocket.

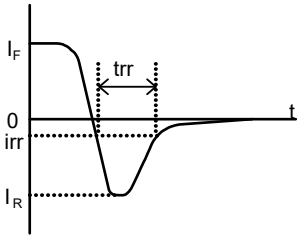
■ELECTRICAL CHARACTERISTICS

Ta=25℃

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_{F1}	I_F=10mA	-	0.33	-	V
	V_{F2}	I_F=200mA	-	0.53	0.6	V
Reverse Current	I_R	V_R=40V	-	-	2	μA
Inter-Terminal Capacity	Ct	V_R=10V , f=1MHz	-	5	-	pF
Reverse Recovery Time*	trr	I_F=I_R=10mA , irr=1mA	-	4	-	ns

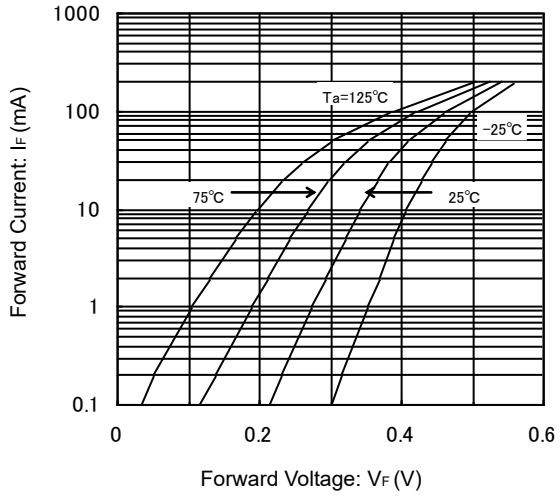
* : trr measurement circuit



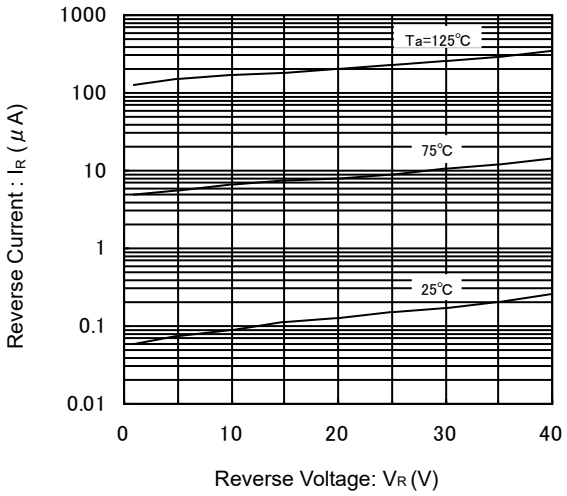


■TYPICAL PERFORMANCE CHARACTERISTICS

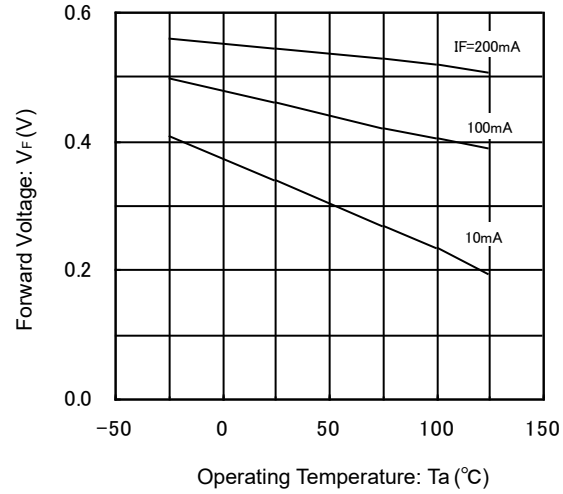
(1) Forward Current vs. Forward Voltage



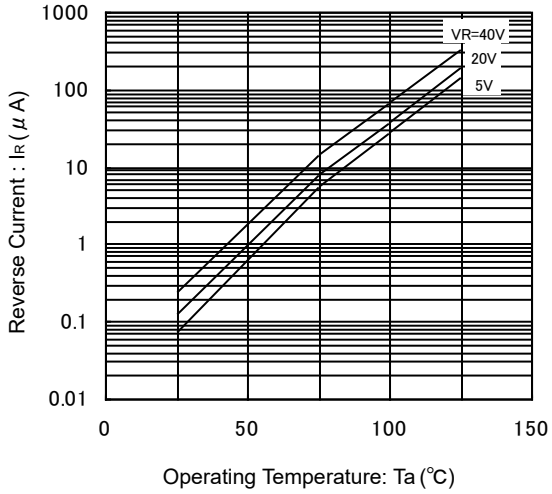
(2) Reverse Current vs. Reverse Voltage



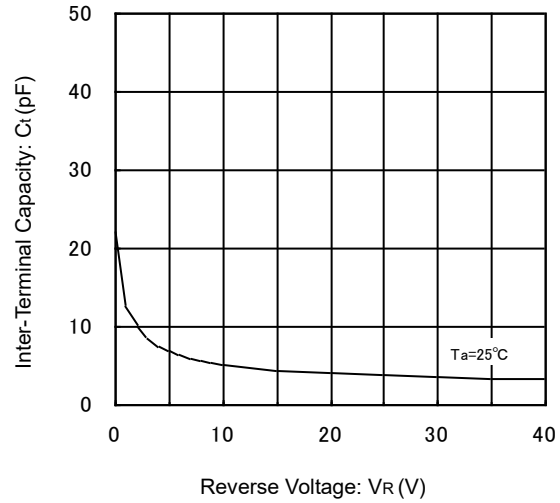
(3) Forward Voltage vs. Operating Temperature



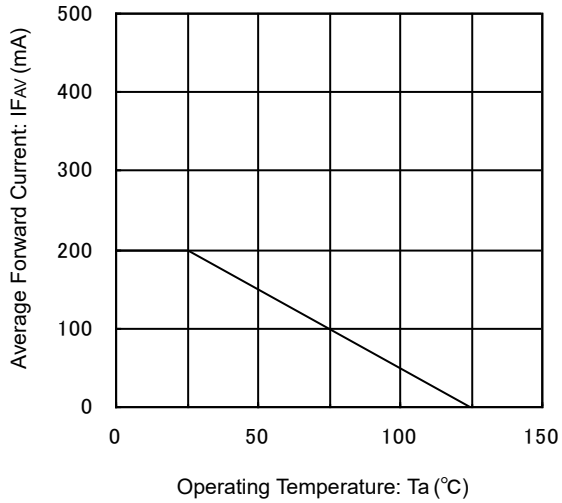
(4) Reverse Current vs. Operating Temperature



(5) Inter-Terminal Capacity vs. Reverse Voltage



(6) Average Forward Current vs. Operating Temperature



■PACKAGING INFORMATION

For the latest package information go to, www.torexsemi.com/technical-support/packages

PACKAGE	OUTLINE / LAND PATTERN	THERMAL CHARACTERISTICS
SOD-523	SOD-523 PKG	

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