Schottky Barrier Diode, 1A, 40V Type

FEATURES

Forward Voltage Forward Current : V_F=0.49V (TYP.)

: I_{F(AV)}=1A

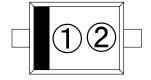
Repetitive Peak Reverse Voltage : V_{RM}=40V

Environmentally Friendly : EU RoHS Compliant, Pb Free ■ABSOLUTE MAXIMUM RATINGS

	1a=25°C							
PARAMETER	SYMBOL	RATINGS	UNIT					
Repetitive Peak Reverse Voltage	Vrm	40	V					
Reverse Voltage (DC)	Vr	40	V					
Forward Current (Average)	IF(AV)	1	А					
Non Continuous	IFSM	10	А					
Forward Surge Current ^{*1}	IFSM	10	A					
Junction Temperature	Tj	125	°C					
Storage Temperature Range	Tstg	-55~+150	°C					

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

■MARKING RULE



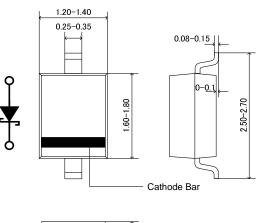
1 (Product Number)
 Assembly Lot Number



Rectification

Protection against reverse connection of battery

■ PACKAGING INFORMATION





■PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION		
XBS104S13R-G	SOD-323A (Halogen & Antimony free)		
XBS104S13R	SOD-323A		

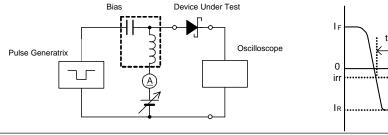
* The "-G" suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant.

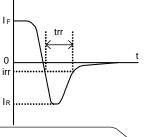
* The device orientation is fixed in its embossed tape pocket.

■ELECTRICAL CHARACTERISTICS

PARAMETER SYMBOL	SVMPOL	TEST CONDITIONS	LIMITS		UNIT	
	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT	
Forward Voltage VF1 VF2	VF1	I _F =100mA	-	0.34	-	V
	VF2	I _F =1A	-	0.49	0.54	V
Reverse Current	lr	V _R =40V	-	4	200	μA
Inter-Terminal Capacity	Ct	V _R =10V , f=1MHz	-	35	-	pF
Reverse Recovery Time ^{*2}	trr	$I_F=I_R=10mA$, irr=1mA, $R_L=100\Omega$	-	25	-	ns







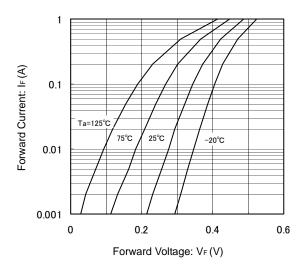
ETR1608-003

Ta=25°C

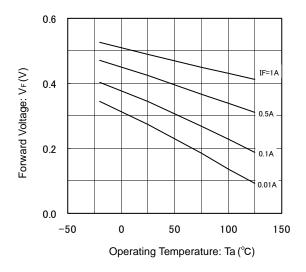
■TYPICAL PERFORMANCE CHARACTERISTICS

(1) Forward Current vs. Forward Voltage

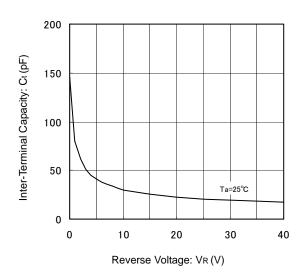
(2) Reverse Current vs. Reverse Voltage

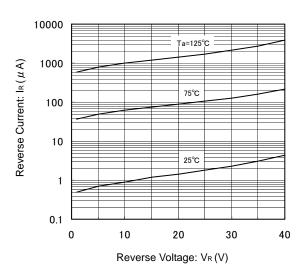


(3) Forward Voltage vs. Operating Temperature

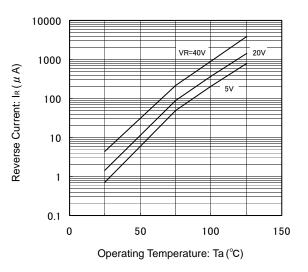


(5) Inter-Terminal Capacity vs. Reverse Voltage

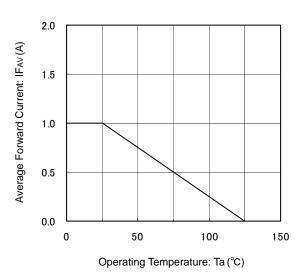




(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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