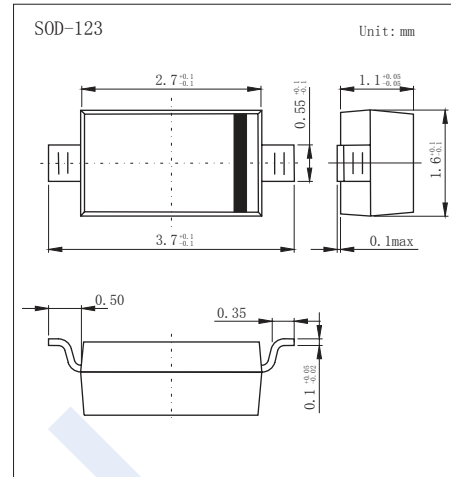
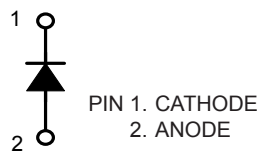


Schottky Barrier Diodes

XBS104V

■ Features

- Forward Voltage : $V_F=0.365V$ (TYP.)
- Forward Current : $I_{F(AV)}=1A$
- Repetitive Peak Reverse Voltage : $V_{RM}=40V$

■ Absolute Maximum Ratings $T_a = 25^\circ C$

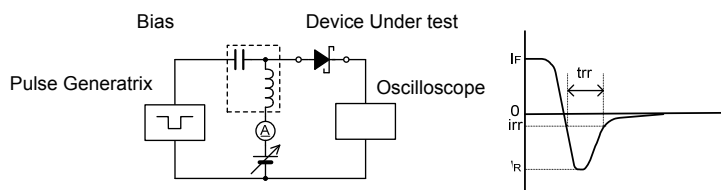
Parameter	Symbol	Rating	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	40	V
DC Blocking Voltage	V_R	40	
DC Forward Current	$I_{F(AV)}$	1	A
Peak forward surge current (Note.1)	I_{FSM}	20	
Junction Temperature	T_J	125	$^\circ C$
Storage temperature range	T_{stg}	-55 to 150	

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

■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_{RM}	$I_R=100\ \mu A$	40			V
Forward voltage	V_F	$I_F=100\ mA$		230	315	mV
		$I_F=500\ mA$		300	385	
		$I_F=1\ A$		365	410	
Reverse voltage leakage current	I_R	$V_R=40\ V$		0.25	2	mA
Junction capacitance	C_j	$V_R=1V, f=1\ MHz$		150		pF
Reverse Recovery Time (Note.2)	t_{rr}	$I_F=I_R=10\ mA, i_{rr}=1\ mA$		41		ns

Note.2: t_{rr} measurement circuit.



■ Marking

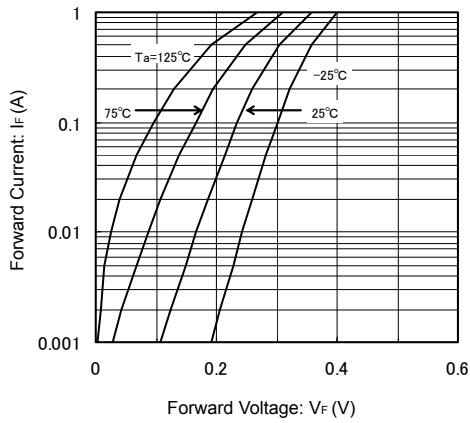
Marking	SL
---------	----

Schottky Barrier Diodes

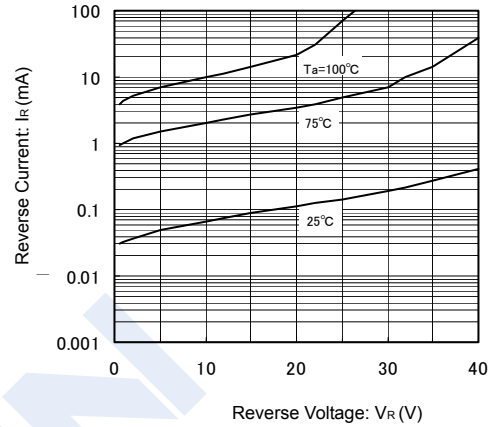
XBS104V

Typical Characteristics

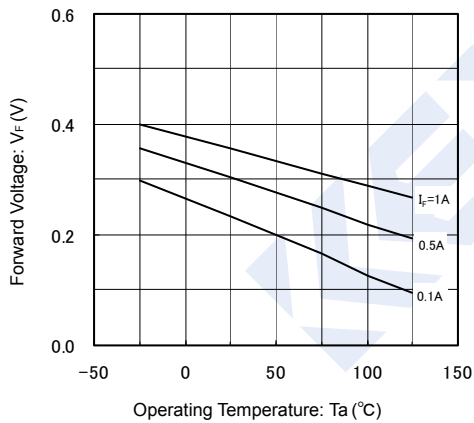
(1) Forward Current vs. Forward Voltage



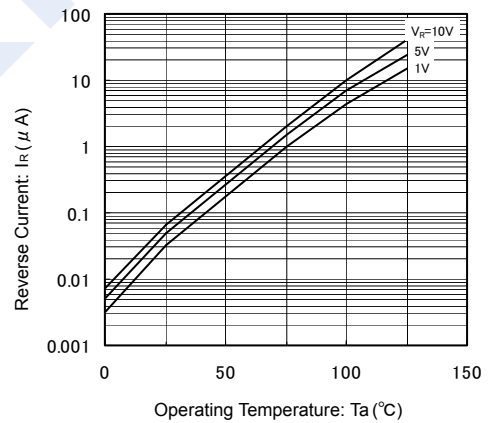
(2) Reverse Current vs. Reverse Voltage



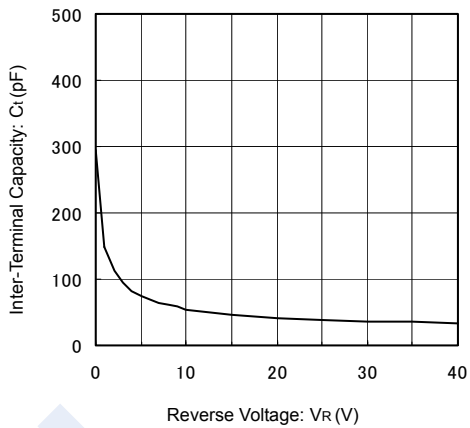
(3) Forward Voltage vs. Operating Temperature



(4) Reverse Current vs. Operating Temperature



(5) Inter-Terminal Capacity vs. Reverse Voltage



(6) Average Forward Current vs. Operating Temperature

