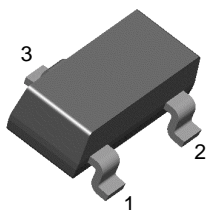
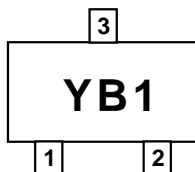


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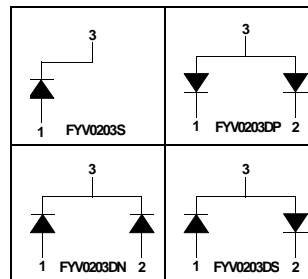
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Marking

FYV0203S = YB1 FYV0203DP = YB3
FYV0203DN = YB2 FYV0203DS = YB4

Connection Diagram



Schottky Diode

Absolute Maximum Ratings $T_A=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
V_{RRM}	Maximum Repetitive Reverse Voltage	30	V
$I_{F(AV)}$	Average Rectified Forward Current	0.2	A
I_{FSM}	Non-repetitive Peak Surge Current Pulse Width = 1.0s	0.6	A
T_{STG}	Storage Temperature Range	-65 to +150	$^\circ\text{C}$
T_J	Operating Junction Temperature	150	$^\circ\text{C}$

Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	430	$^\circ\text{C}/\text{W}$

Electrical Characteristics $T_A=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Min.	Typ.	Max.	Units	
V_F^*	Forward Voltage Drop				mV	
	$I_F = 0.1\text{mA}$	-	210	240		
	$I_F = 1\text{mA}$	-	270	320		
	$I_F = 10\text{mA}$	-	340	400		
	$I_F = 30\text{mA}$	-	390	500		
	$I_F = 100\text{mA}$	-	485	800		
I_R^*	Reverse Current @ Rated V_R	$T_A = 25^\circ\text{C}$	-	0.2	2	μA
		$T_A = 125^\circ\text{C}$	-	130	-	
C_T	Total Capacitance $V_R = 1\text{V}$, $f = 1.0\text{MHz}$	-	-	10	pF	
t_{rr}	Reverse Recovery Time $I_F = I_R = 10\text{mA}$, $I_{RR} = 1\text{mA}$, $R_L = 100\Omega$	-	-	5	ns	

* Pulse Test: Pulse Width=300 μs , Duty Cycle=2%

Typical Characteristics

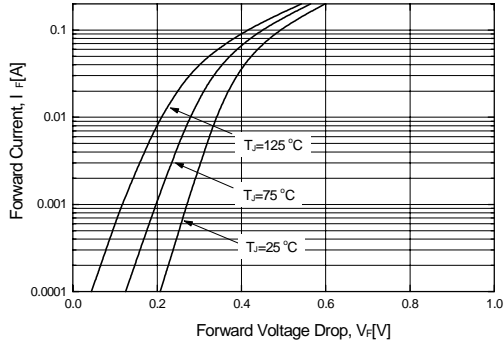


Figure 1. Typical Forward Voltage Characteristics

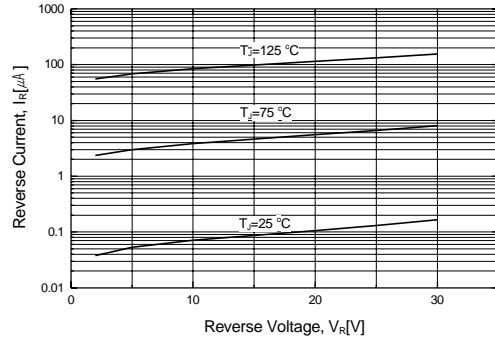


Figure 2. Typical Reverse Current vs. Reverse Voltage

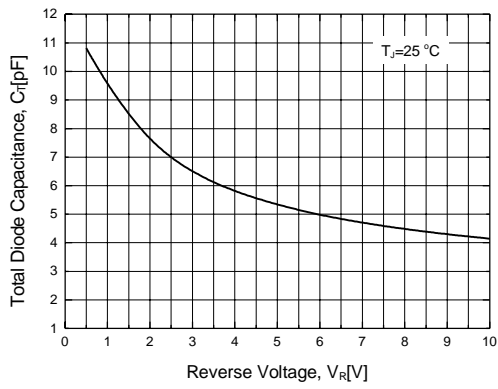
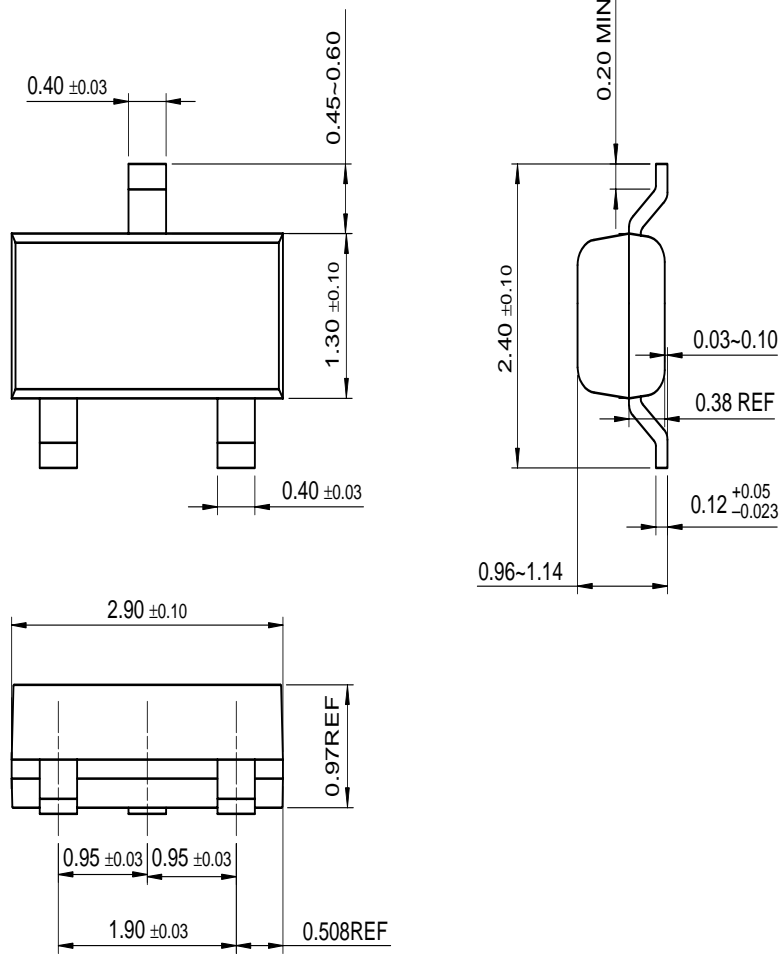


Figure 3. Total Diode Capacitance

Package Dimensions

SOT-23

FYV0203S/DN/DP/DS



Dimensions in Millimeters

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