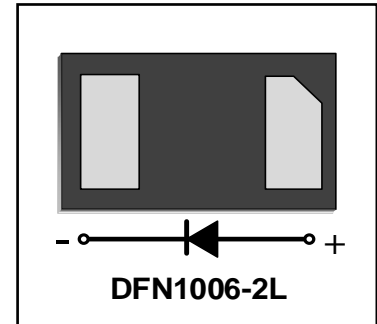




WSR4010BF

Schottky Barrier Diode



Feature

- Low Forward Voltage
- Low Current Leakage
- Small Outline Surface Mount Package
- RoHS Compliant / Green EMC

Applications

- Low Current Rectification
- Switch Mode Power Supply
- Inverse Polarity Protection
- Low Power Consumption Applications

Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V_R	40	V
Mean Rectifying Current	I_o	1	A
Non-Repetitive Peak Forward Surge Current @ t=8.3ms	I_{FSM}	7	A
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	400	$^{\circ}C/W$
Junction Temperature	T_J	125	$^{\circ}C$
Storage Temperature	T_{stg}	-55 to 125	$^{\circ}C$

Electrical Characteristics ($T_{amb}=25^{\circ}C$ unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R = 1mA$	40	-	-	V
Reverse Voltage Leakage Current	I_R	$V_R = 40V$	-	10	40	μA
Forward Voltage	V_F	$I_F = 0.1A$	-	0.35	0.38	V
		$I_F = 0.2A$	-	0.37	0.42	
		$I_F = 0.5A$	-	0.42	0.49	
		$I_F = 0.7A$	-	0.47	0.55	
		$I_F = 1A$	-	0.51	0.61	
Typical Junction Capacitance	C_J	$V_R = 10V, f=1.0MHz$	-	19	-	pF

Typical Characteristics

Figure 1. Forward Characteristics

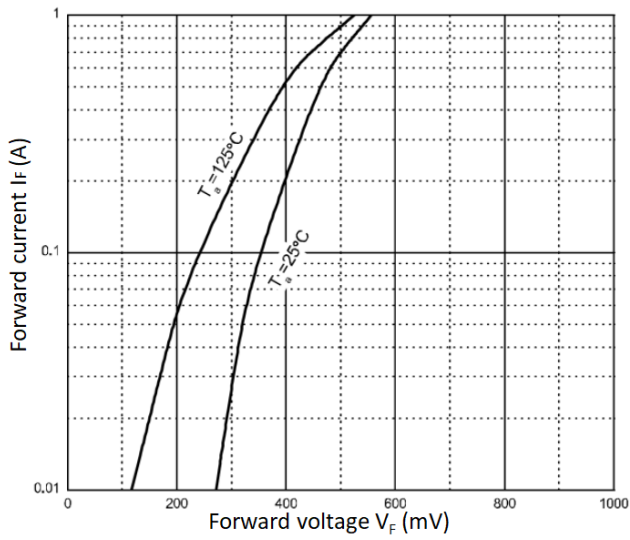
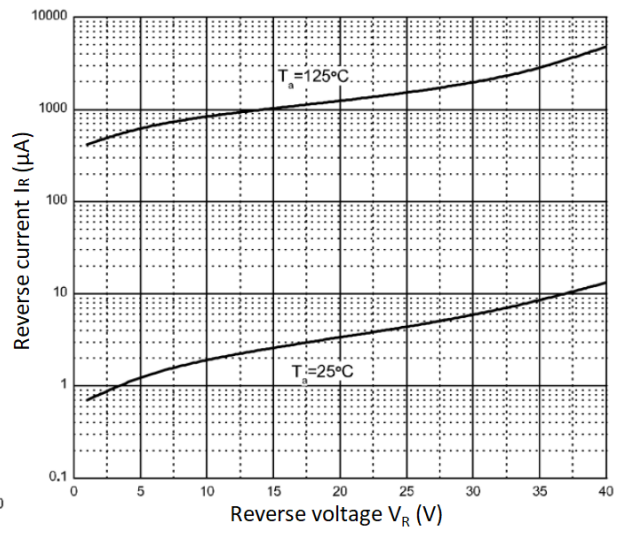


Figure 2. Reverse Characteristics



Outline Drawing –DFN1006-2L

PACKAGE OUTLINE

BOTTOM VIEW

DFN1006-2L

SYMBOL	MILLIMETERS		
	MIN	NOM	MAX
A	0.45	0.50	0.55
A1	0	0.02	0.05
b	0.45	0.50	0.55
C	0.12	0.15	0.18
D	0.95	1.00	1.05
e	0.65BSC		
E	0.55	0.60	0.65
L	0.20	0.25	0.30
L1	0.05REF		
h	0.07	0.12	0.17

Land Pattern

Marking Codes

Part Number	WSR4010BF
Marking Code	

Package Information

Qty: 10k/Reel

CONTACT INFORMATION

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Specifications are subject to change without notice.
 The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
 Users should verify actual device performance in their specific applications.

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