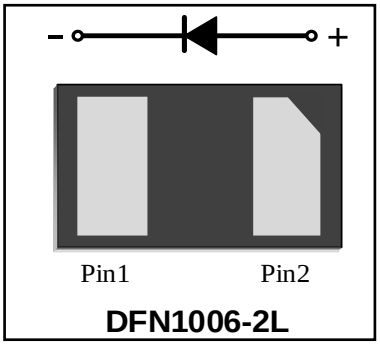
WSR4010BF-AT

Schottky Barrier Diode

Features

- Low Forward Voltage
- High Reliability
- AEC-Q101 Qualified



DFN1006-2L

Applications

- Low Current Rectification
- Inverse Polarity Protection
- Low Power Consumption Applications

Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Forward Continuous Current	I_F	1.0	A
Peak Forward Surge Current@8.3ms Half Sine	I_{FSM}	3.0	A
Junction Temperature	T_J	125	°C
Storage Temperature	T_{stg}	-55 to +125	°C
Power Dissipation	P_D	250	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	400	°C /W

Electrical Characteristics (T_{amb}=25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage Leakage Current	I_R	V_R = 40V	-	-	40	μA
Forward Voltage	V_F	I_F = 0.1A	-	-	0.37	V
		I_F = 0.2A	-	-	0.41	
		I_F = 0.5A	-	-	0.48	
		I_F = 0.7A	-	-	0.53	
		I_F = 1A	-	-	0.60	
Typical Junction Capacitance	C_J	V_R= 10V, f=1.0MHz	-	19	-	pF

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Typical Characteristics

Figure 1. Forward Characteristics

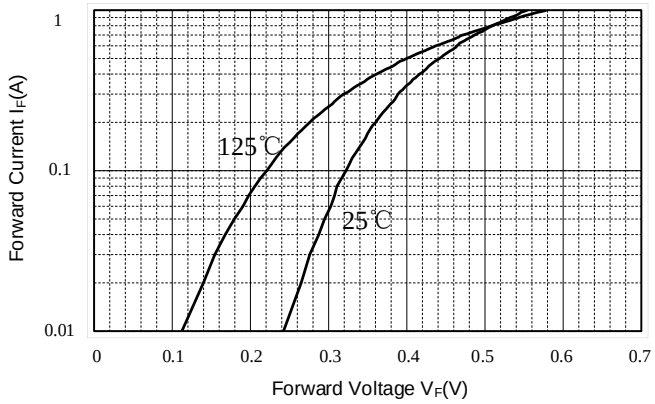


Figure 2. Reverse Characteristics

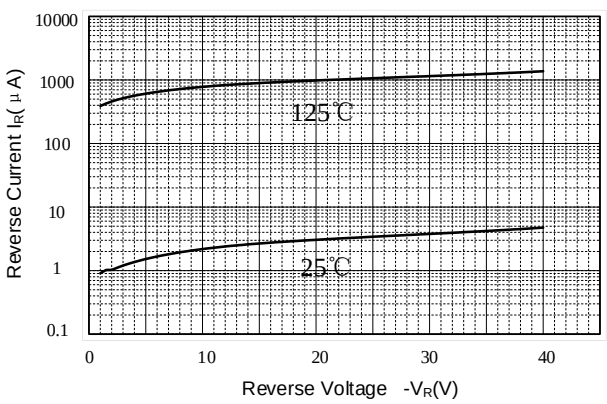
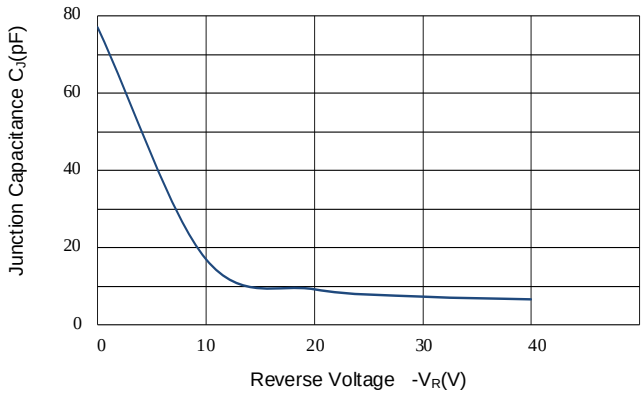
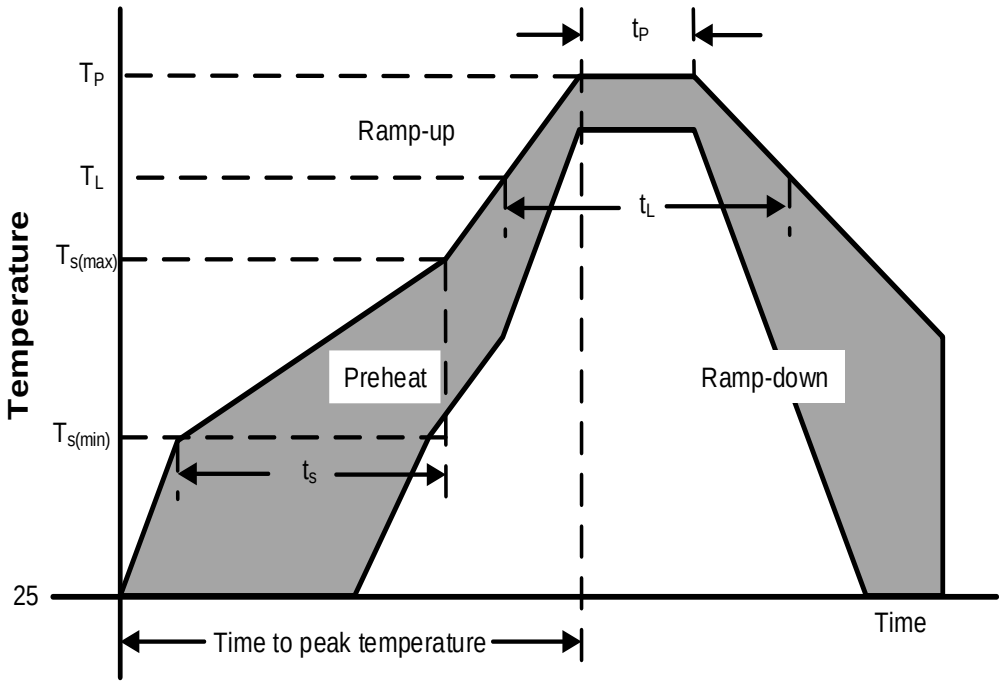


Figure 3. Junction Capacitance Characteristics



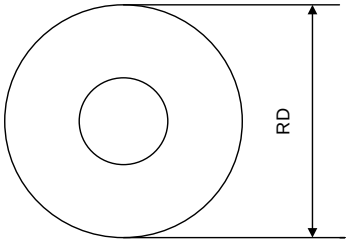
Soldering Parameters

Reflow Condition		Pb – Free assembly
Pre Heat	Temperature Min ($T_{s(min)}$)	150°C
	Temperature Max ($T_{s(max)}$)	200°C
	Time (min to max) (ts)	60 – 190 secs
Average ramp up rate (Liquidus Temp) (T_L) to peak		5°C/second max
$T_{S(max)}$ to T_L——Ramp-up Rate		5°C/second max
Reflow	Temperature (T_L) (Liquidus)	217°C
	Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_P)		260+0/-5 °C
Time within actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max.
Do not exceed		280°C

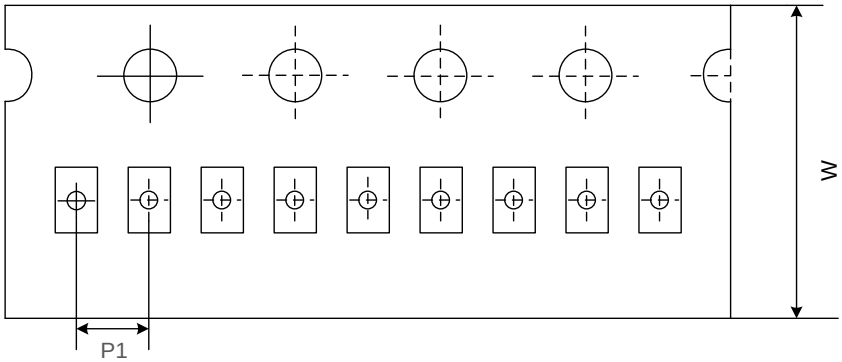


Tape And Reel Information

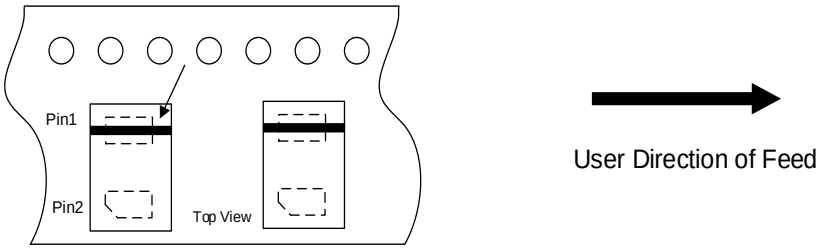
Reel Dimensions



Tape Dimensions



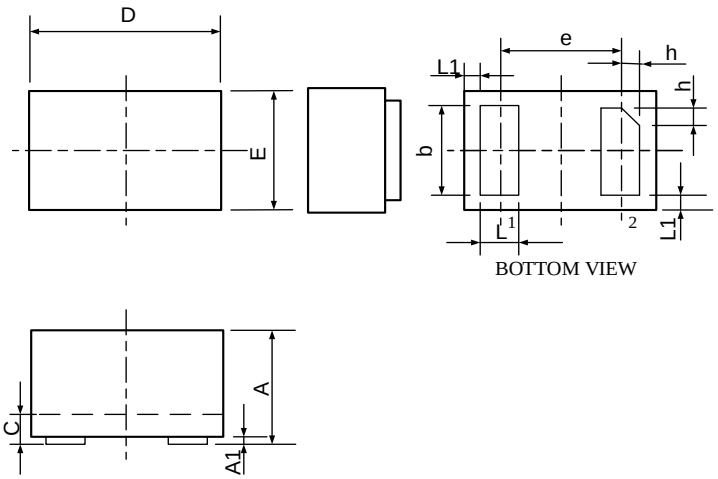
Quadrant Assignments For PIN1 Orientation In Tape

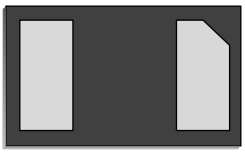


RD	Reel Dimensions	7 inch
W	Overall width of the carrier tape	8 mm
P1	Pitch between successive cavity centers	2mm

Outline Drawing –DFN1006-2L

PACKAGE OUTLINE

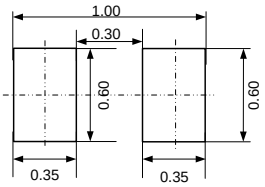




DFN1006-2L

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-AT
Marking Code	4A

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.