



B1040N6-D1 Schottky Barrier Diode

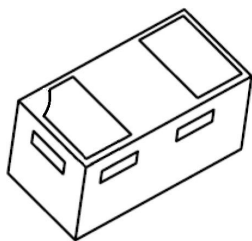
Feature

- Low Forward Voltage Drop
- Low Reverse current

Application

- Low Voltage Rectification
- Switch Mode Power Supply
- High Efficiency DC/DC Conversion
- Inverse Polarity Protection
- Low Power Consumption Applications

Package

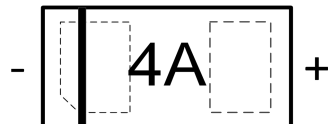


DFN1006-2L

Circuit diagram



Marking





Absolute maximum ratings (Ta=25°C unless otherwise noted)

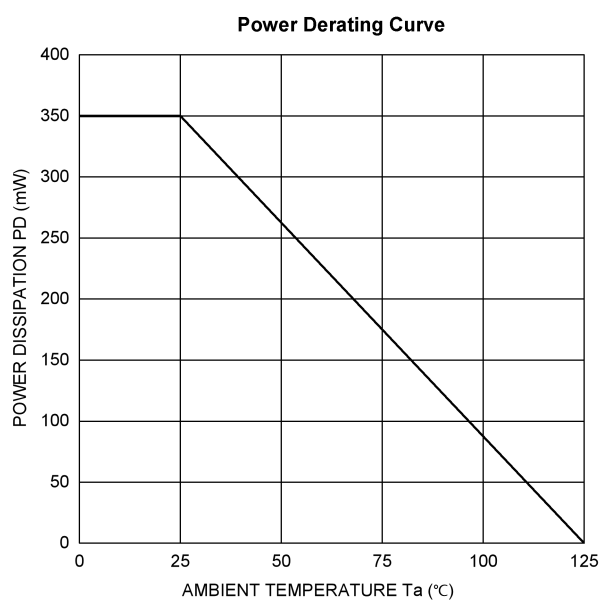
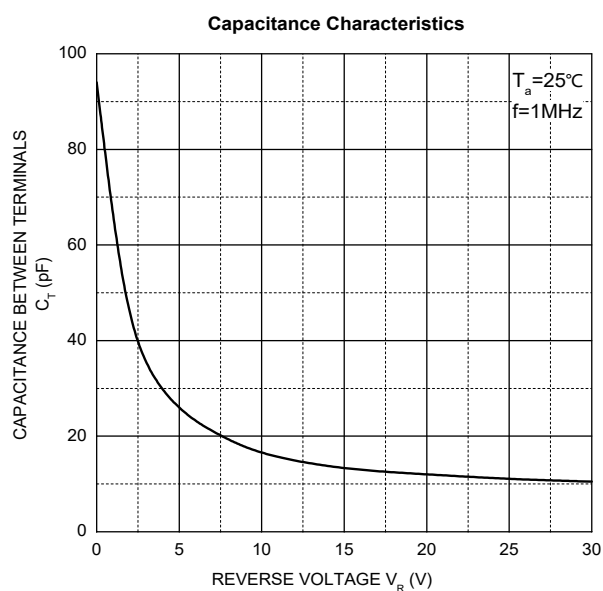
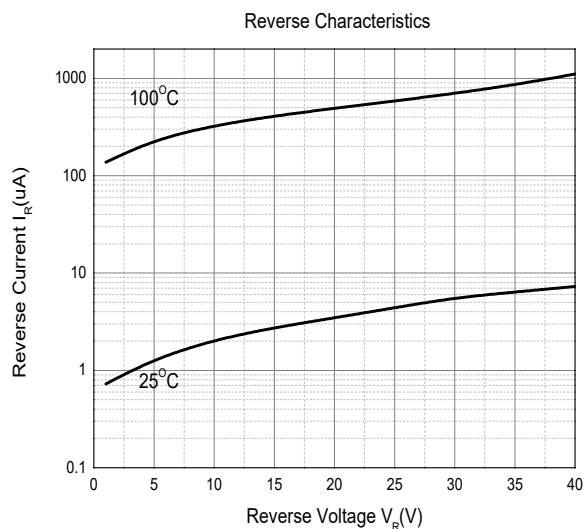
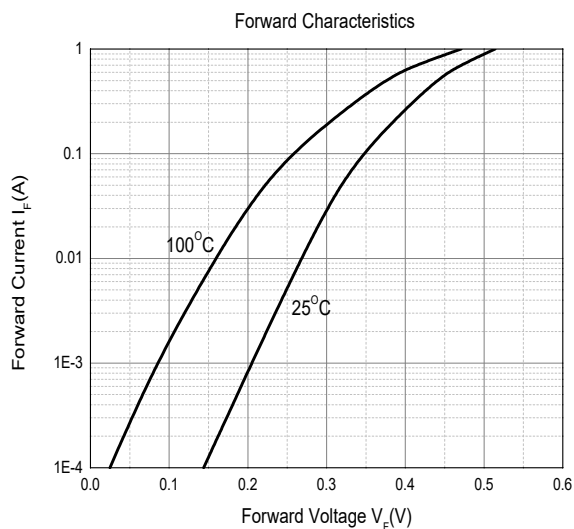
Parameter	Symbol	Value	Unit
DC reverse voltage	V_R	40	V
Mean rectifying current	I_O	1	A
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I_{FSM}	5	A
Power Dissipation	P_D	250	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	400	°C/W
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-55 ~ +150	°C

Electrical characteristics (T_A=25 °C, unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse voltage	V_{BR}	$I_R = 20\mu A$	40			V
Forward voltage	V_F	$I_F = 0.5A$			0.51	V
		$I_F = 0.7A$			0.55	
		$I_F = 1A$			0.62	
Reverse current	I_R	$V_R = 20V$		2	20	μA
		$V_R = 40V$		5	50	
Diode capacitance	C_D	$V_R = 10V, f = 1MHz$		18		pF

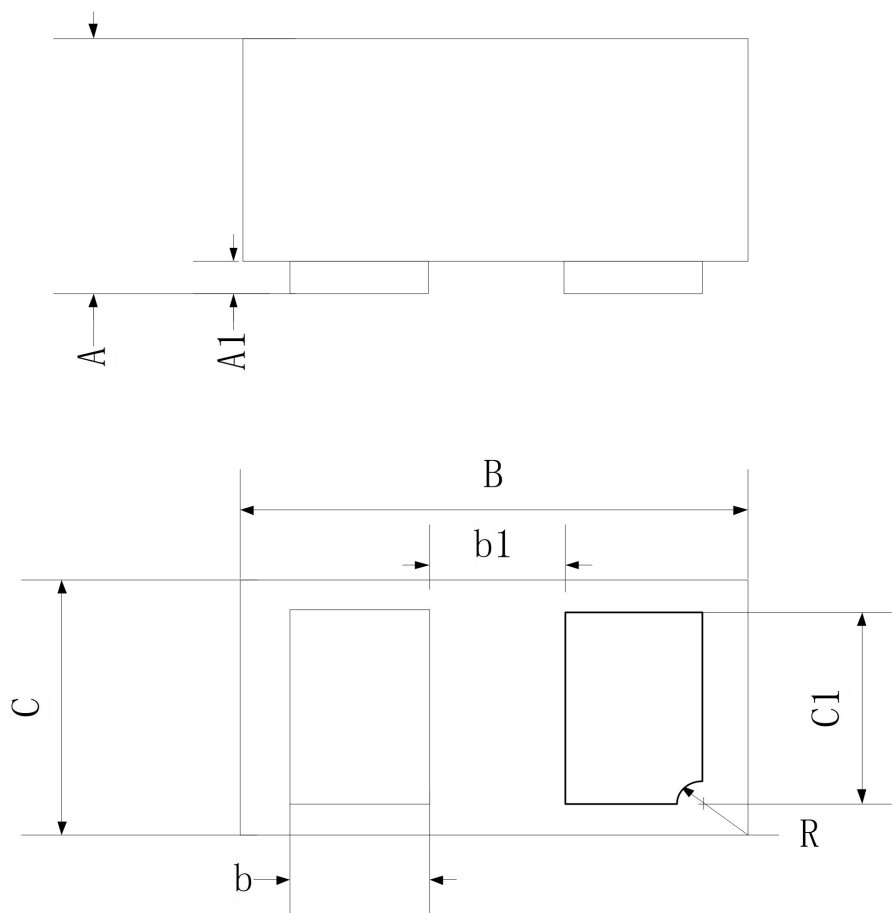


Typical Characteristics



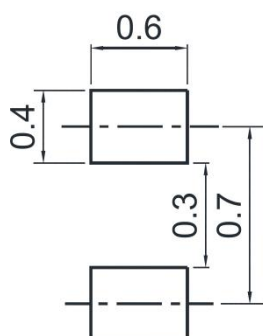


DFN1006-2L Package Information



Symbol	Dimensions in millimeters	
	Min.	Max.
A	0.46	0.51
A1	0	0.05
B	0.95	1.05
b	0.2	0.3
b1	0.4	
C	0.55	0.65
C1	0.45	0.55
R	0.05	0.15

Recommended PCB Layout (Unit: mm)





DFN1006-2L Tape

DFN1006-2L Tape Leader and Trailer

