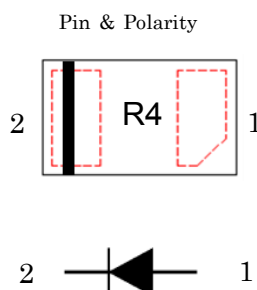
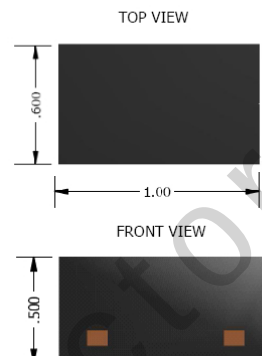


- ◇ Low current rectification
- ◇ Low forward voltage
- ◇ ROHS Compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)

Device Marking Code	
RB161QS-40	R4


DFN1006-2L
unit:mm


Maximum Ratings (Ta = 25 °C)

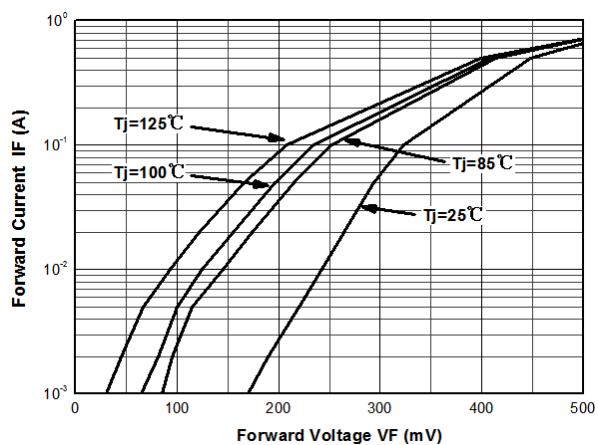
Symbol	Parameter	Value	Units
P_D	Power Dissipation	250	mW
V_R	Reverse Voltage	40	V
$I_{F(AV)}$	Average Forward Current	1	A
I_{FSM}	Non-Repetitive Peak Forward Current *1	5	A
T_J	Junction Temperature	125	°C
T_{STG}	Storage Temperature	-55 to + 125	°C

*1: 8.3ms Single Half Sine-Wave

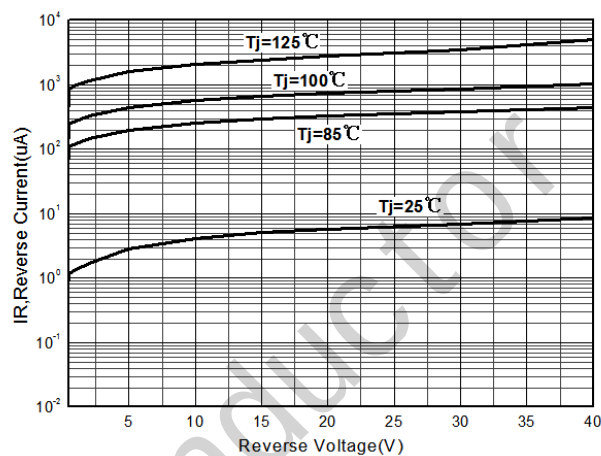
Electrical Characteristics (Ta = 25 °C Unless Otherwise Noted)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V_{BR}	Reverse Breakdown Voltage	$I_R=100\mu A$	40			V
I_R	Reverse Leakage Current	$V_R=10V$			30	μA
		$V_R=40V$			100	
V_F	Forward Voltage	$I_F=100mA$			0.39	V
		$I_F=500mA$			0.50	
		$I_F=700mA$			0.55	
		$I_F=1A$			0.60	

Typical Characteristics



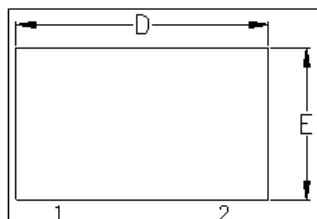
Typical Instantaneous Forward Characteristics



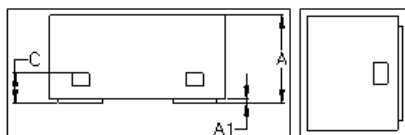
Typical Reverse Leakage Characteristics

Package Dimensions

Top view

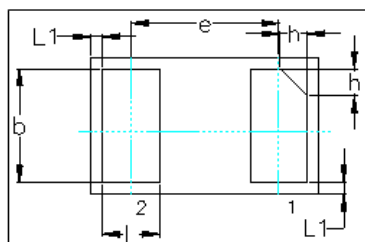


Side view

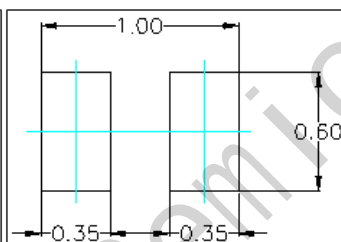


SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	0.45	0.50	0.55
A1	0.00	0.02	0.05
b	0.45	0.50	0.55
C	0.12	0.15	0.18
D	0.95	1.00	1.05
e	0.65BSC		
E	0.55	0.60	0.65
L	0.20	0.25	0.30
L1	0.05 REF.		
h	0.07	0.12	0.17

Back view



Soldering Pattern



Notice:

- 1 Lead plating: Pb free solder
- 2 Lead thickness includes solder plating
- 3 Other Tolerance: ± 0.05
- 4 Dimensions are exclusive of Burrs, Mold Flash and Tie Bar extrusions
- 5 Unit: mm

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
RB161QS-40	DFN1006-2L	Tape & Reel 10000pcs / 7" Reel	8mm	4mm	Conductive	