

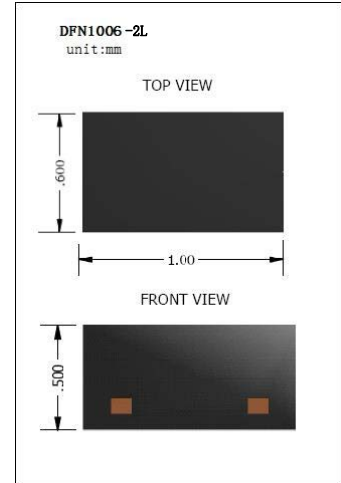
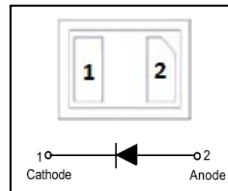
Schottky Diode

RB520BS-40

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

Device Marking Code	
RB520BS-40	D1

Equivalent Circuit



MAXIMUM RATINGS (Ta = 25 °C)

Symbol	Parameter	Value	Units
V_R	Reverse Voltage	40	V
I_O	Average Rectified forward Current	200	mA
I_{FSM}	Peak Forward Surge Current	1	A
T_J	Junction Temperature	125	°C
T_{STG}	Storage Temperature	-40 to +125	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C unless otherwise noted)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V_F	Forward Voltage	$I_F=10mA$			0.39	V
V_F	Forward Voltage	$I_F=100mA$			0.55	V
I_R	Reverse Current	$V_R=10V$			1	uA
I_R	Reverse Current	$V_R=40V$			10	uA

Schottky Diode

Ordering Information

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

Package Dimensions

Package outline : DFN1006-2L

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 Lead frame: Copper A194
- 4 Other Tolerance: ± 0.05
- 5 Dimensions are exclusive of Burrs, Mold Flash and Tie Bar extrusions
- 6 Unit: mm