

RB520S-30L2-TP Datasheet

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DiGi Electronics Part Number	RB520S-30L2-TP-DG
Manufacturer	Micro Commercial Co
Manufacturer Product Number	RB520S-30L2-TP
Description	DIODE SCHOTTKY 30V 100MA 2DFN
Detailed Description	Diode 30 V 100mA Surface Mount 2-DFN1006

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Purchase and inquiry

Manufacturer Product Number:

RB520S-30L2-TP

Series:

-

Technology:

Schottky

Current - Average Rectified (Io):

100mA

Speed:

Small Signal =< 200mA (Io), Any Speed

Capacitance @ Vr, F:

-

Package / Case:

0402 (1006 Metric)

Operating Temperature - Junction:

125°C (Max)

Manufacturer:

Micro Commercial Co

Product Status:

Active

Voltage - DC Reverse (Vr) (Max):

30 V

Voltage - Forward (Vf) (Max) @ If:

450 mV @ 10 mA

Current - Reverse Leakage @ Vr:

500 nA @ 10 V

Mounting Type:

Surface Mount

Supplier Device Package:

2-DFN1006

Base Product Number:

RB520

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8541.10.0070

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

Features

- Small Surface Mounting Type
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Halogen Free. "Green" Device (Note 1)

Maximum Ratings

- Operating Junction Temperature Range: 125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 1000°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
RB520S-30L2	E1	30V	30V

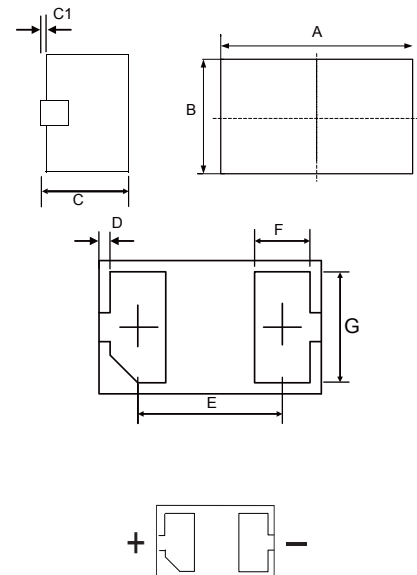
Electrical Characteristics @ 25°C Unless Otherwise Specified

Mean Rectifying Current	I_O	100mA	
Peak Forward Surge Current	I_{FSM}	0.5A	$t=8.3ms$
Forward Voltage	V_F	0.45V(Max)	$I_F=10mA$;
Reverse Current	I_R	0.5 μ A(Max)	$V_R=10V$

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

100 mA
Schottky Rectifier
30 Volts

DFN1006-2L



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.037	0.041	0.95	1.05	
B	0.022	0.026	0.55	0.65	
C	0.016	0.020	0.40	0.50	
C1	-----	0.002	-----	0.05	
D	0.001	0.003	0.02	0.08	
E	0.026BSC		0.65BSC		
F	0.008	0.012	0.20	0.30	
G	0.018	0.022	0.45	0.55	

Curve Characteristics

Fig. 1 - Forward Characteristics

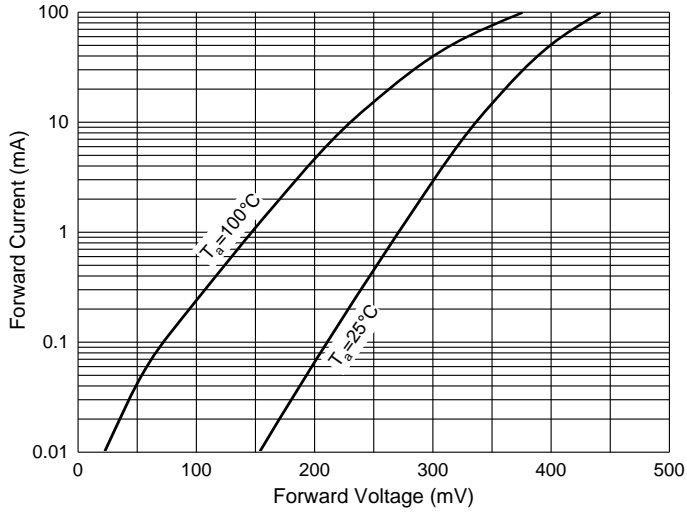


Fig. 2 - Reverse Characteristics

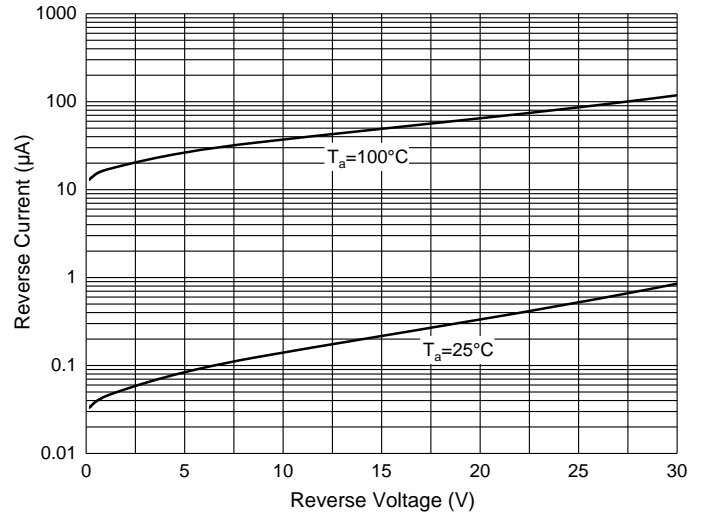


Fig. 3 - Capacitance Characteristics

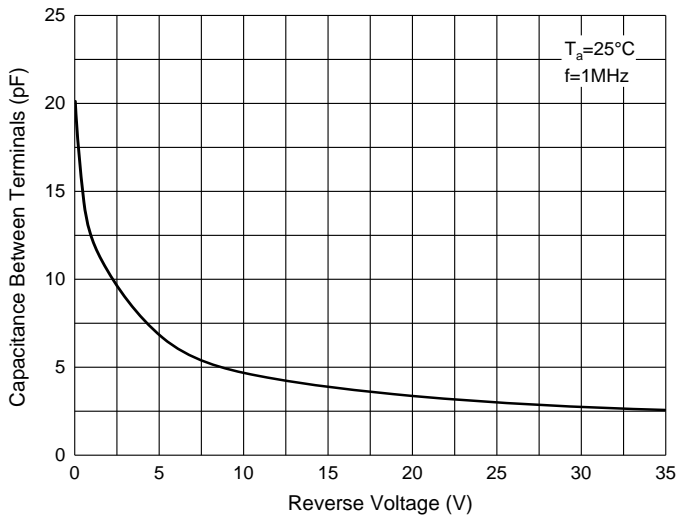
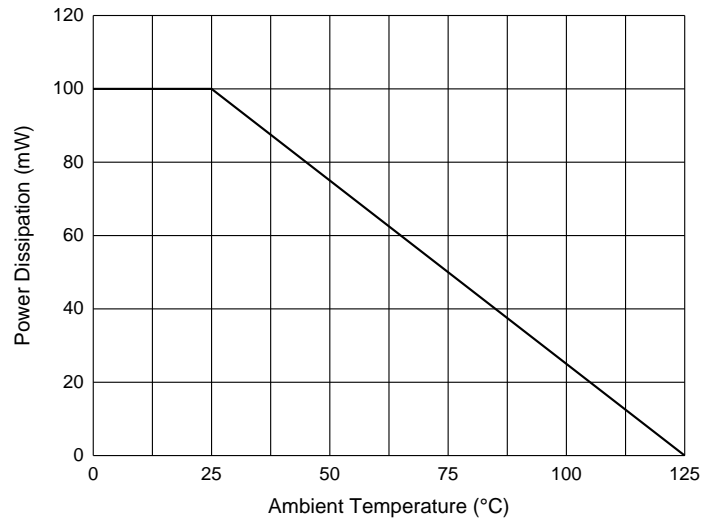


Fig. 4 - Power Derating Curve



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel;10Kpcs/Reel

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