

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- High Reliability
- Low Reverse Current and Low Forward Voltage.
- Small Surface Mount Type
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

Symbol	Rating	Rating	Unit
V _R	Repetitive Peak Reverse Voltage	30	V
V _{R(RMS)}	RMS Reverse Voltage	21	V
lo	Mean Rectifying Current	100	mA
I _{FSM}	Non-Repetitive Peak forward Surge Current@t=8.3ms, half sine wave	500	mA
Pd	Power Dissipation	100	mW
R _{thJA}	Thermal Resistance from Junction to Ambient	1000	°C/W
TJ	Junction Temperature	125	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units
OFF CHARACTERISTICS					

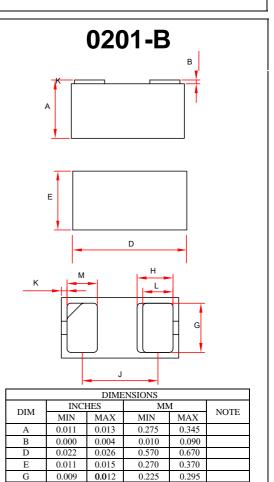
ULL CHANA	UILIIIJIIUJ			
V _F	Forward Voltage (I _F =10mAdc) (I _F =100mAdc)		 0.45 0.85	Vdc Vdc
I _R	Reverse Current (V _R =10Vdc) (V _R =30Vdc)		 0.3 20	uAdc uAdc
$V_{(BR)}$	Reverse Breakdown Voltage (I _R =50uA)	30	 	Vdc

MARKING



RB520S-30EP

100 mA Schottky Barrier Diode 30 Volts



0.190

0.030REF

0.435

0.195

0.195

0.365

0.125

0.125

SUGGESTED SOLDER PAD LAYOUT

0.007 REF

0.014 0.017

0.001REF

0.008

0.220

0.008

0.005

0.005

Η

Κ

L M

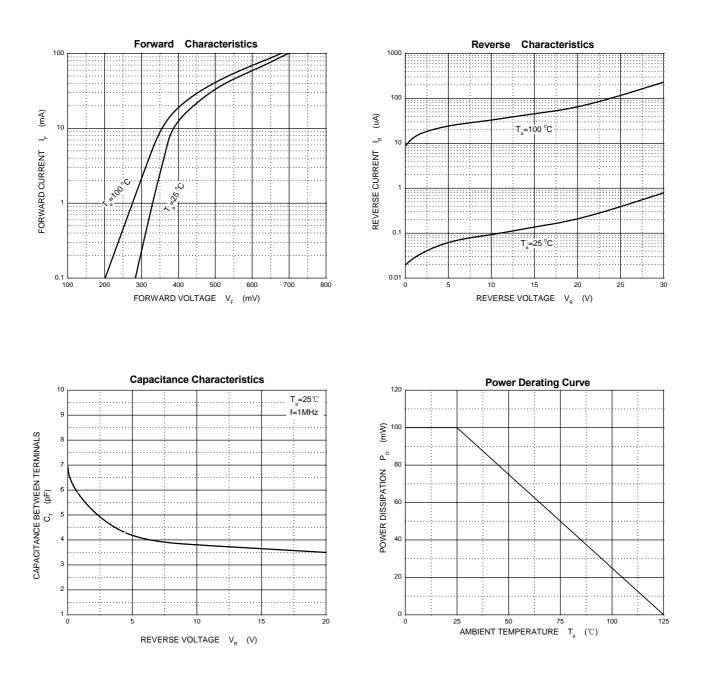
www.mccsemi.com

Revision: A

2016/02/06

RB520S-30EP

• M• C• C• C•



www.mccsemi.com



Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com