



Micro Commercial Components

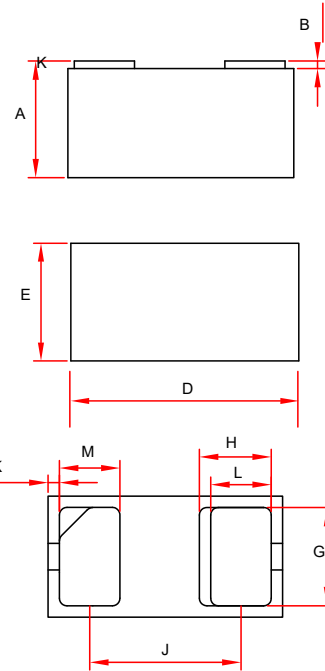


Micro Commercial Components
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RB520S-30EP

**100 mA
 Schottky Barrier Diode
 30 Volts**

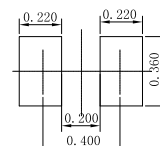
0201-B



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.011	0.013	0.275	0.345	
B	0.000	0.004	0.010	0.090	
D	0.022	0.026	0.570	0.670	
E	0.011	0.015	0.270	0.370	
G	0.009	0.012	0.225	0.295	
H	0.007 REF.		0.190 REF.		
J	0.014	0.017	0.365	0.435	
K	0.001 REF.		0.030 REF.		
L	0.005	0.008	0.125	0.195	
M	0.005	0.008	0.125	0.195	

SUGGESTED SOLDER PAD LAYOUT



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
I_O	Mean Rectifying Current	100	mA
I_{FSM}	Non-Repetitive Peak forward Surge Current @ $t=8.3ms$, half sine wave	500	mA
P_d	Power Dissipation	100	mW
R_{thJA}	Thermal Resistance from Junction to Ambient	1000	$^{\circ}C/W$
T_J	Junction Temperature	125	$^{\circ}C$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

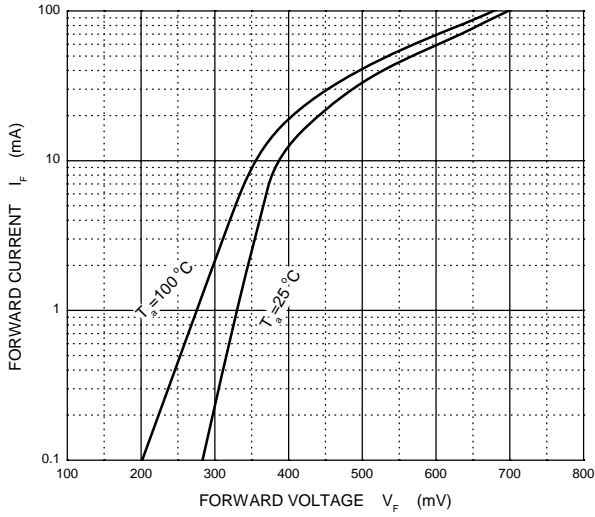
Symbol	Parameter	Min	Typ	Max	Units
OFF CHARACTERISTICS					
V_F	Forward Voltage ($I_F=10mA_{dc}$) ($I_F=100mA_{dc}$)	---	---	0.45	Vdc
		---	---	0.85	Vdc
I_R	Reverse Current ($V_R=10Vdc$) ($V_R=30Vdc$)	---	---	0.3	μA_{dc}
		---	---	20	μA_{dc}
$V_{(BR)}$	Reverse Breakdown Voltage ($I_R=50\mu A$)	30	---	---	Vdc

MARKING

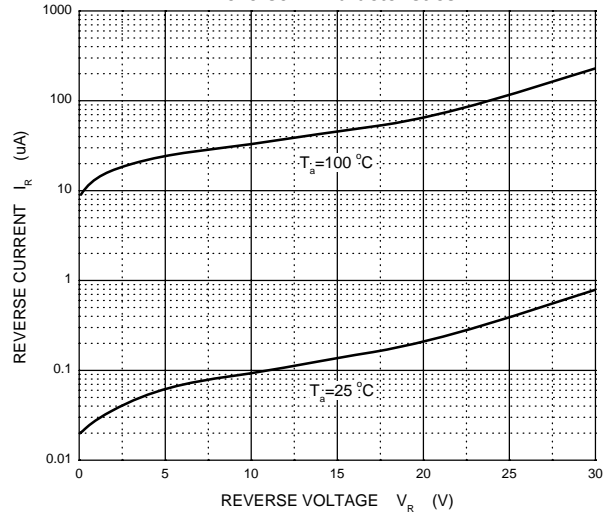


RB520S-30EP

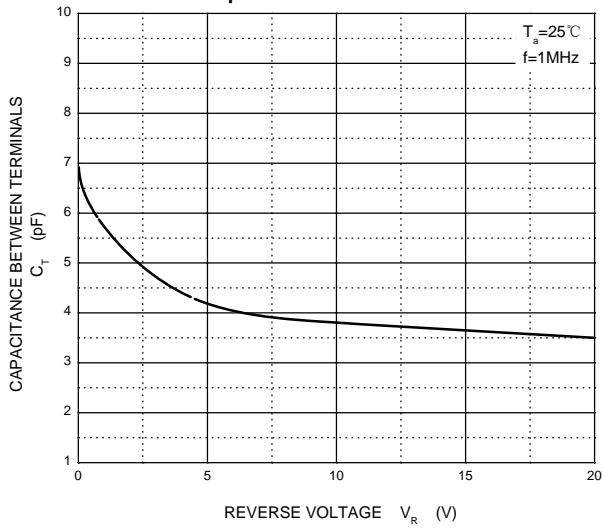
Forward Characteristics



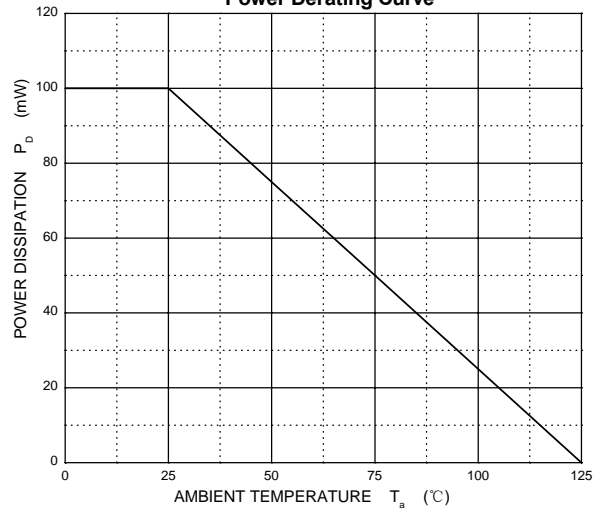
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve





Ordering Information :

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

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

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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.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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