



Micro Commercial Components



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RB520S-30EP

**100 mA
Schottky Barrier Diode
30 Volts**

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	$^{\circ}C$

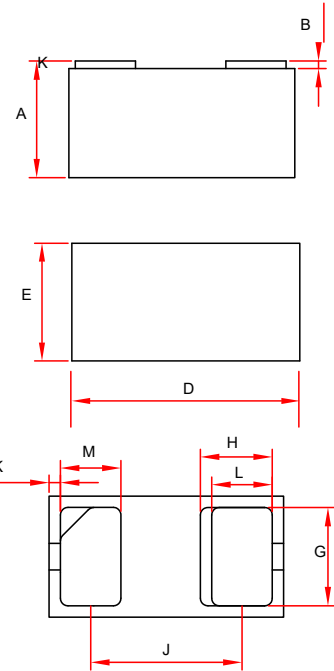
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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OFF CHARACTERISTICS

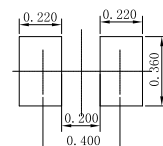
V_F	Forward Voltage ($I_F=10mA_{dc}$) ($I_F=100mA_{dc}$)	---	---	0.45	Vdc
		---	---	0.85	Vdc
I_R	Reverse Current ($V_R=10Vdc$) ($V_R=30Vdc$)	---	---	0.3	μA_{dc}
		---	---	20	μA_{dc}
$V_{(BR)}$	Reverse Breakdown Voltage ($I_R=50\mu A$)	30	---	---	Vdc

MARKING



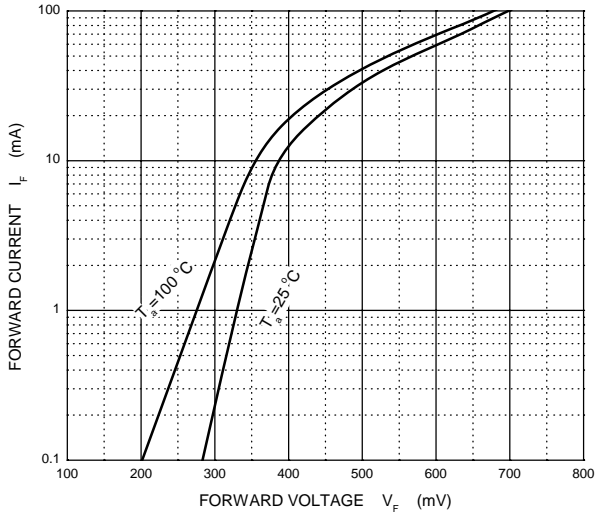
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.011	0.013	0.275	0.345	
B	0.000	0.004	0.010	0.090	
D	0.022	0.026	0.570	0.670	
E	0.011	0.015	0.270	0.370	
G	0.009	0.012	0.225	0.295	
H	0.007 REF.		0.190 REF.		
J	0.014	0.017	0.365	0.435	
K	0.001 REF.		0.030 REF.		
L	0.005	0.008	0.125	0.195	
M	0.005	0.008	0.125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

SUGGESTED SOLDER PAD LAYOUT

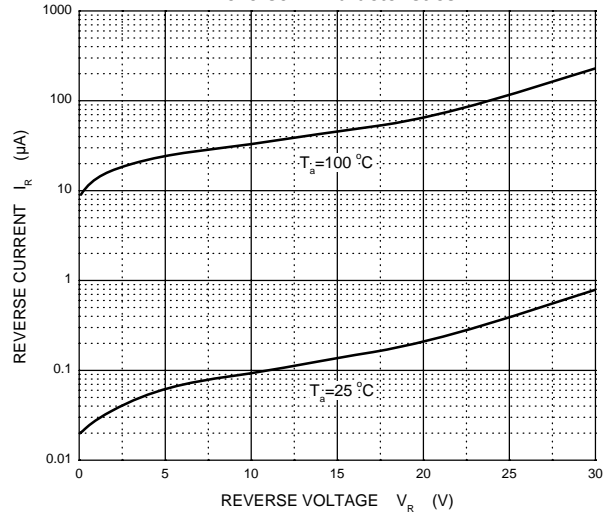


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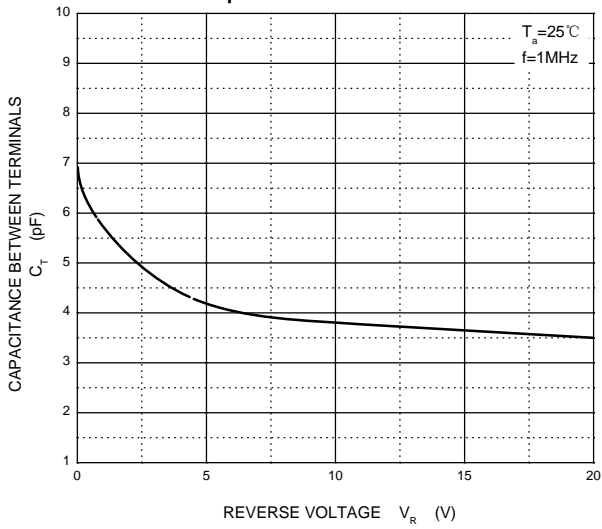
Forward Characteristics



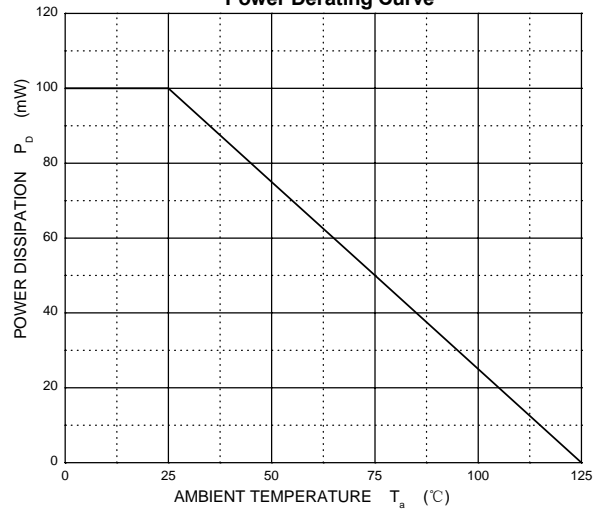
Reverse Characteristics



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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