

# DS520-30EAA02

## DS520-30EAA02 Schottky Barrier Diode

### General description

Schottky Barrier Diode in a DFN0603 Plastic Package.

Green Product

### FEATURES

- Low reverse current and low forward voltage
- Small Surface Mounting Type (DFN0603)
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode
- Weight: approx. 0.24mg



DFN0603



### Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	100	mW
$T_{STG}$	Storage Temperature Range	-55 to +125	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	+125	$^\circ\text{C}$
$V_R$	Reverse Voltage	30	V
$I_{F(AV)}$	Average Forward Current	100	mA
$I_{FSM}$	Peak Forward Surge Current (At 8.3ms single half sine-wave)	0.5	A

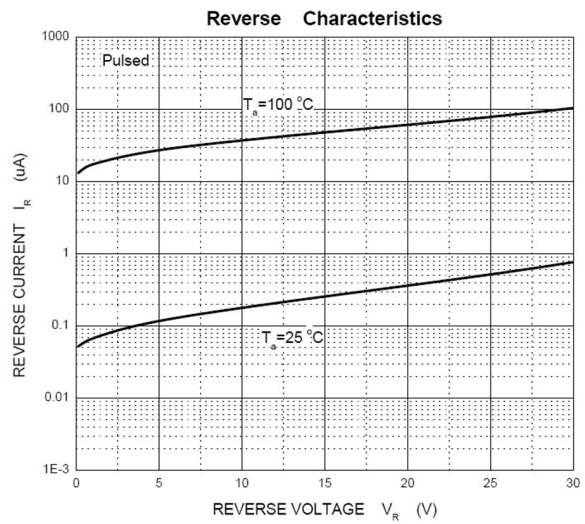
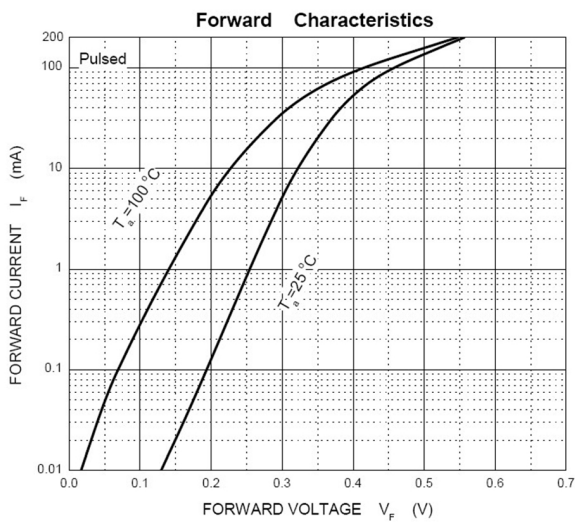
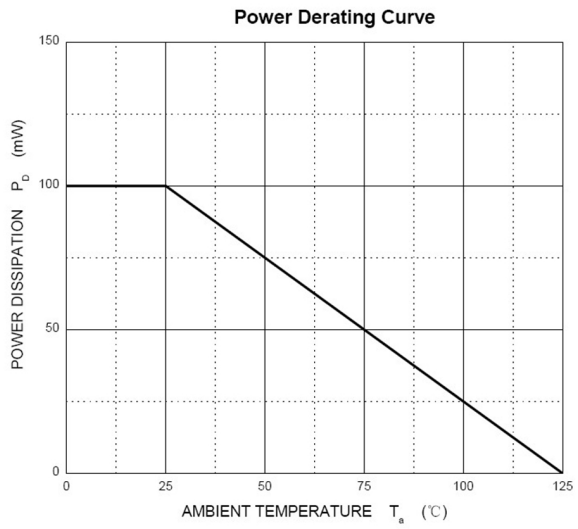
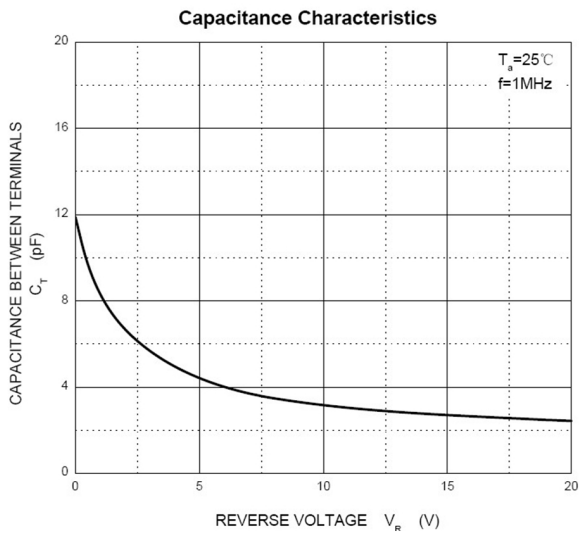
### Device Marking Code:

Device Type	Device Marking
DS520-30EAA02	A or F

### Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

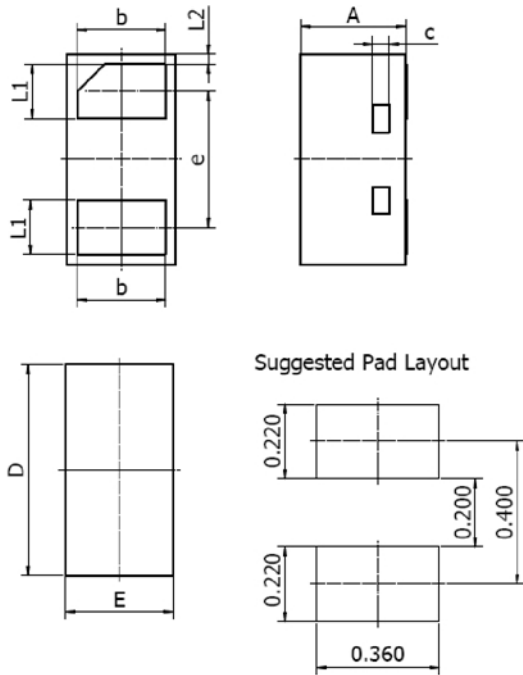
Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
$B_V$	Breakdown Voltage	$I_R=50\mu\text{A}$	30		Volts
$I_R$	Reverse Leakage Current	$V_R=10\text{V}$ $V_R=30\text{V}$		0.3 20	$\mu\text{A}$
$V_F$	Forward Voltage	$I_F=10\text{mA}$ $I_F=100\text{mA}$		0.45 0.65	Volts

## RATING AND CHARACTERISTIC CURVES



# DS520-30EAA02

## DFN0603 Package Outline



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.27	0.35	0.011	0.013
D	0.57	0.67	0.022	0.026
E	0.27	0.37	0.011	0.015
b	0.225	0.295	0.009	0.012
c	0.050REF		0.002REF	
e	0.365	0.435	0.014	0.017
L1	0.125	0.195	0.005	0.008
L2	0.030REF		0.001REF	

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