

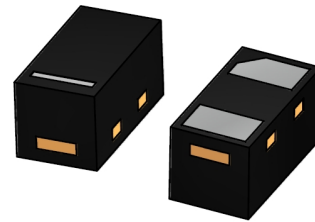
## DFN0603 Plastic-Encapsulate Diodes Schottky Barrier Diode

Green Product

### Absolute Maximum Ratings T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	100	mW
T <sub>STG</sub>	Storage Temperature Range	-55 to +125	°C
T <sub>J</sub>	Operating Junction Temperature	+125	°C
V <sub>RRM</sub>	Repetitive Peak Reverse Voltage	30	V
I <sub>O</sub>	Average Rectified Output Current	100	mA
I <sub>FSM</sub>	Peak Forward Surge Current (At 8.3ms single half sine-wave)	0.5	A

These ratings are limiting values above which the serviceability of the diode may be impaired.




DFN0603



### Specification Features:

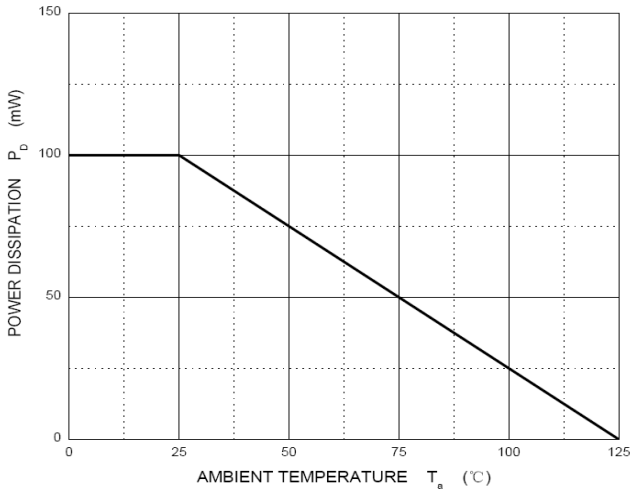
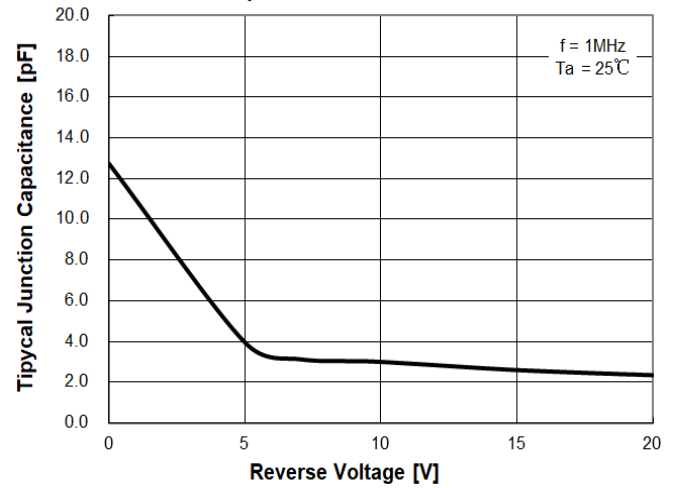
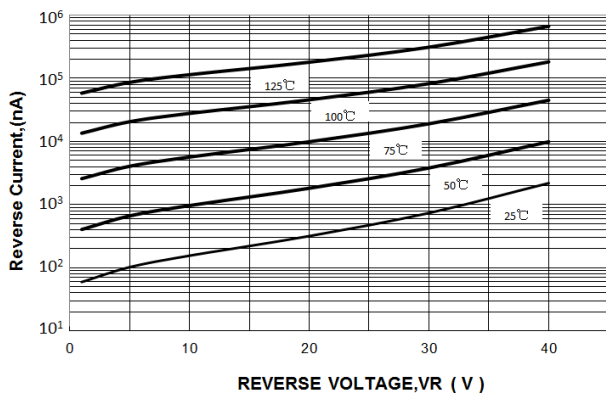
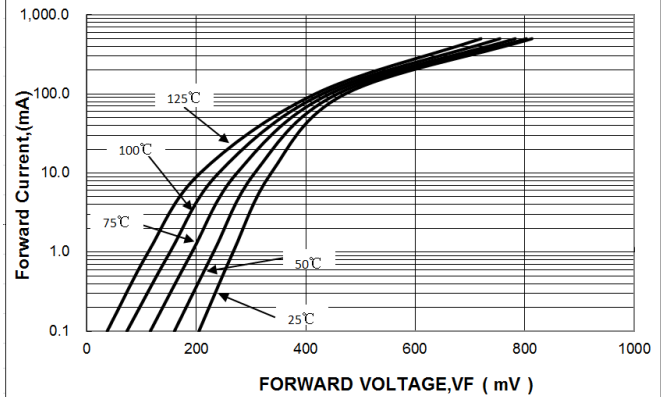
- § Small surface mounting type
- § Low reverse current and low forward voltage
- § RoHS Compliant
- § Green EMC
- § Matte Tin(Sn) Lead Finish
- § Band Indicates Cathode
- § Weight: approx. 0.24mg

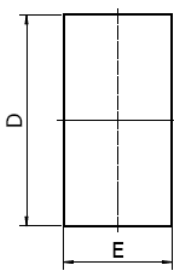
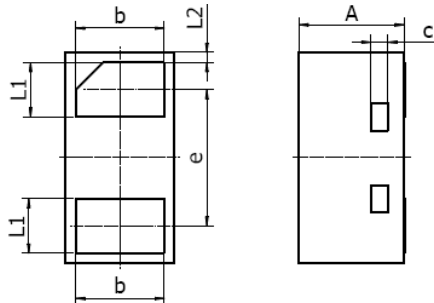
### DEVICE MARKING CODES:

Device Type	Marking	Shipping
DS520-30EAA02		10,000/Reel

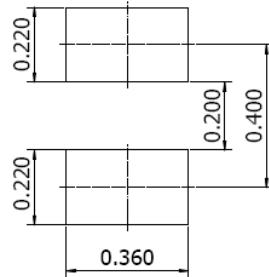
### Electrical Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B <sub>V</sub>	Breakdown Voltage	I <sub>R</sub> =50μA	30		Volts
I <sub>R</sub>	Reverse Leakage Current	V <sub>R</sub> =10V V <sub>R</sub> =30V		0.3 20	μA
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> =10mA I <sub>F</sub> =100mA		0.45 0.65	Volts

**RATING AND CHARACTERISTIC CURVES**
**Power Derating Curve**

**Capacitance Characteristics**

**TYPICAL REVERSE CHARACTERISTICS**

**TYPICAL FORWARD VOLTAGE CHARACTERISTICS**


**DFN0603 Package Outline**


Suggested Pad Layout



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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