

DFN0603 Plastic-Encapsulate Diodes Schottky Barrier Diode

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_{RRM}	Repetitive Peak Reverse Voltage	30	V
I_O	Average Rectified Output Current	100	mA
I_{FSM}	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.

Specification Features:

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



DFN0603

DEVICE MARKING CODES:

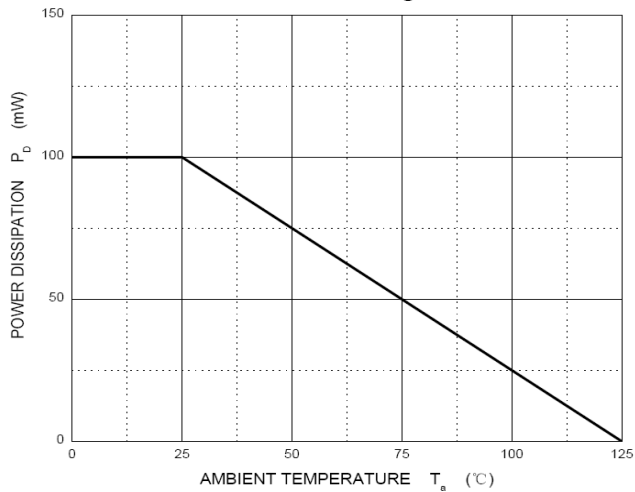
Device Type	Marking	Shipping
DS521-30EAA02	-  +	10,000/Reel

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

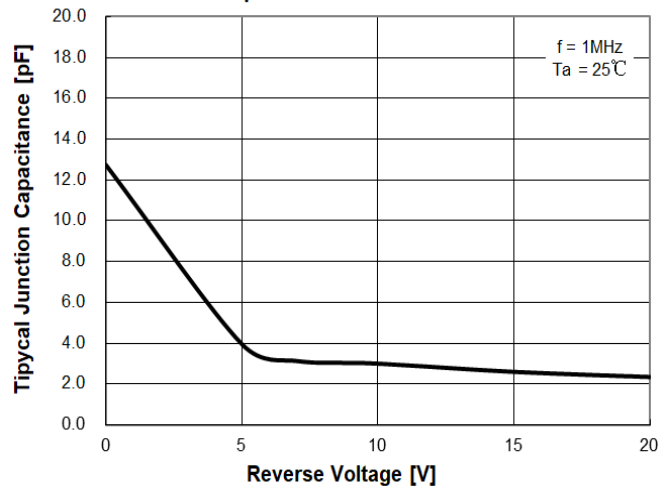
Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	$I_R=50\mu\text{A}$	30		Volts
I_R	Reverse Leakage Current	$V_R=10\text{V}$ $V_R=30\text{V}$		10 50	μA
V_F	Forward Voltage	$I_F=10\text{mA}$ $I_F=100\text{mA}$		0.38 0.60	Volts

RATING AND CHARACTERISTIC CURVES

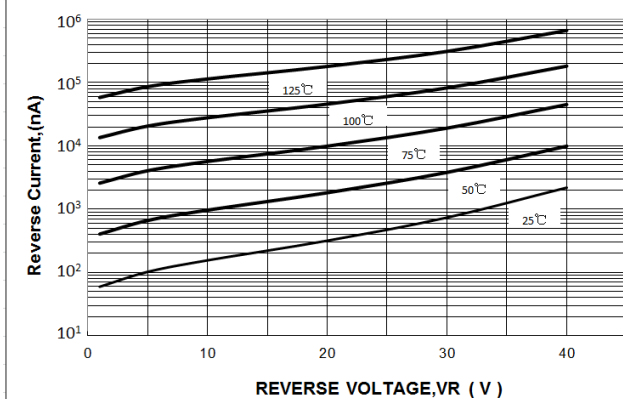
Power Derating Curve



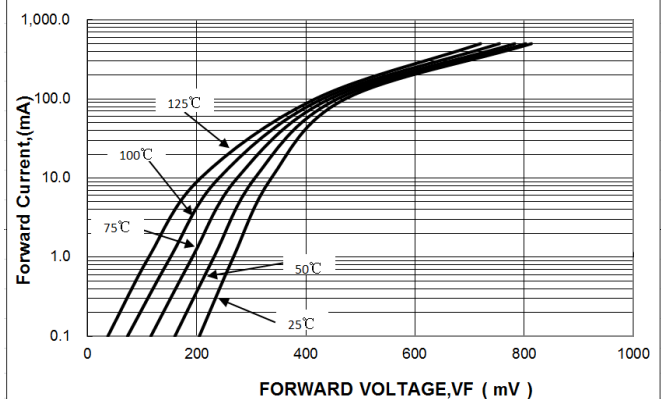
Capacitance Characteristics

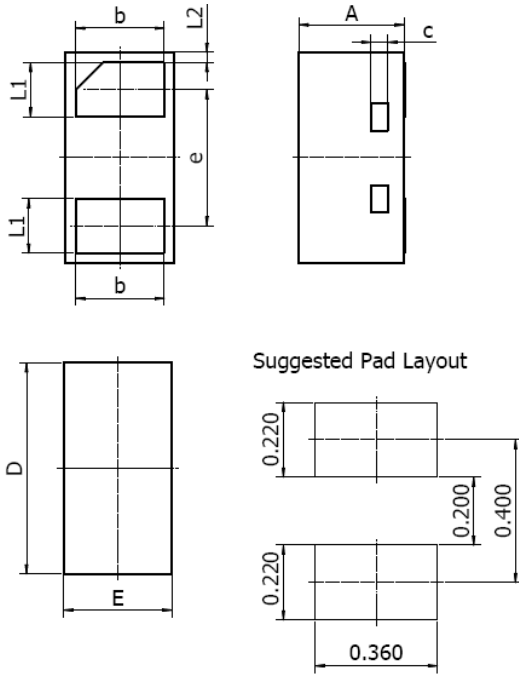


TYPICAL REVERSE CHARACTERISTICS



TYPICAL FORWARD VOLTAGE CHARACTERISTICS



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	