

DFN0603 Plastic-Encapsulate Diodes Schottky Barrier Diode

Green Product

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P _D	Power Dissipation	100	mW
T _{STG}	Storage Temperature Range	-55 to +125	ů
T_J	Operating Junction Temperature	+125	ů
V_{RRM}	Repetitive Peak Reverse Voltage	30	V
lo	Average Rectified Output Current	100	mA
Peak Forward Surge Current (At 8.3ms single half sine-wave)		0.5	Α

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 an 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	- [A] +	10,000/Reel	

Electrical Characteristics (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Test Condition	Limits		l lmit
	Parameter	rest Condition	Min	Max	Unit
B _V	Breakdown Voltage	I _R =50μΑ	30		
					Volts
I_R	Reverse Leakage Current	V _R =10V		0.3	
		V _R =30V		20	μΑ
V_{F}	Forward Voltage	I _F =10mA		0.45	
		I _F =100mA		0.65	Volts

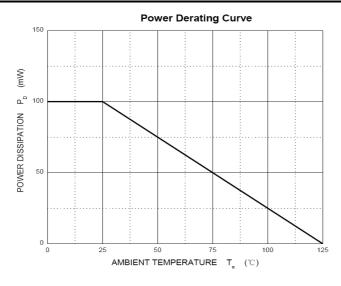
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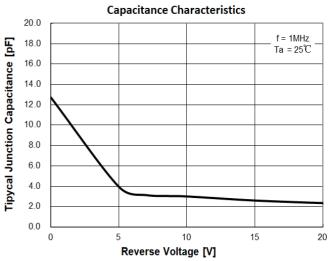
September 2020, Revision A

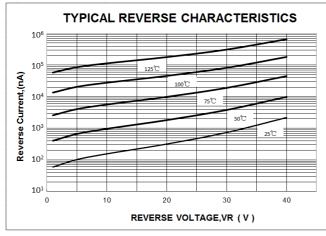


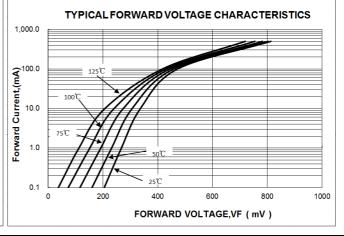


RATING AND CHARACTERISTIC CURVES





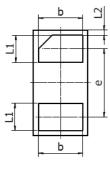


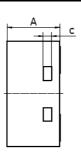


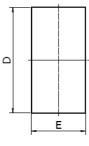


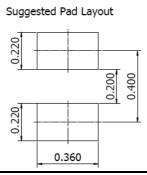


DFN0603 Package Outline









DIM	MILLIMETERS		INCHES		
	MIN	MAX	MIN	MAX	
А	0.27	0.35	0.011	0.013	
D	0.57	0.67	0.022	0.026	
Е	0.27	0.37	0.011	0.015	
b	0.225	0.295	0.009	0.012	
С	0.050REF		0.002REF		
е	0.365	0.435	0.014	0.017	
L1	0125	0.195	0.005	0.008	
L2	0.030REF		0.001REF		



NOTICE

The information presented in this document is for reference only. Tak Cheong reserves the right to make changes without notice for the specification of the products displayed herein.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damagers resulting from such improper use of sale.

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Number: DB-100 April 14, 2008 / A

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