

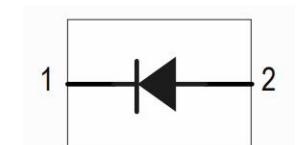
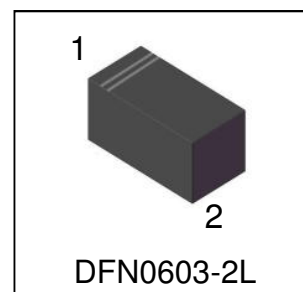
Schottky Barrier Diode

FEATURES

General Application Schottky barrier rectifier, encapsulated in a DFN0603-2L leadless ultra small Surface-Mounted Device (SMD) plastic package.

APPLICATIONS

- Low voltage rectification
- High efficiency DC-to-DC conversion
- Switch Mode Power Supply (SMPS)
- Reverse polarity protection
- Low power consumption applications



Device	Marking	Shipping
ASD01E30T	F	15000/Tape&Reel

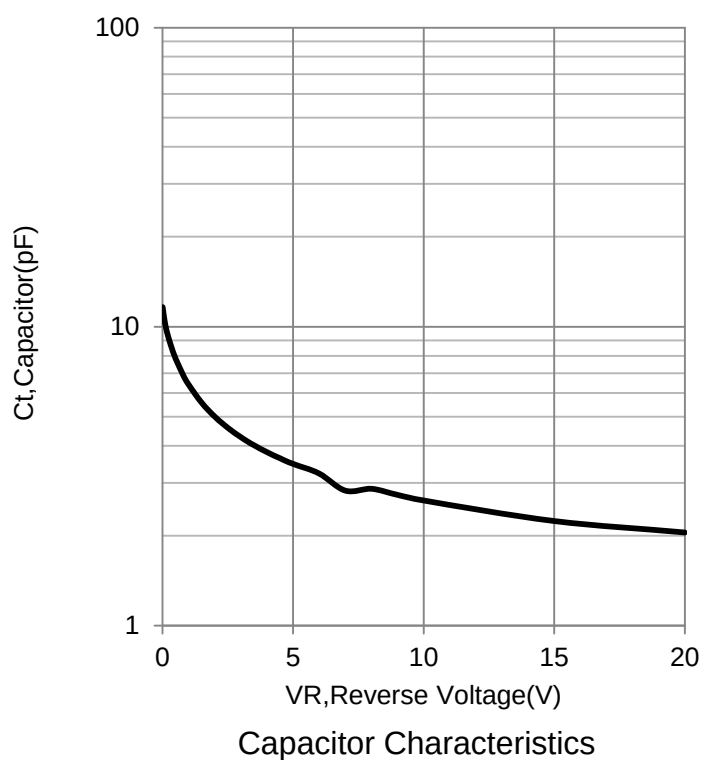
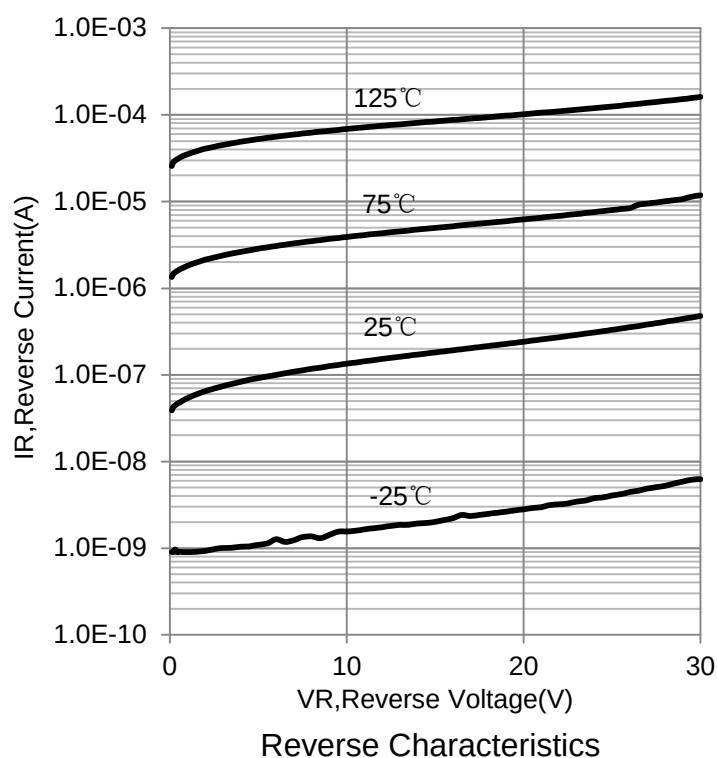
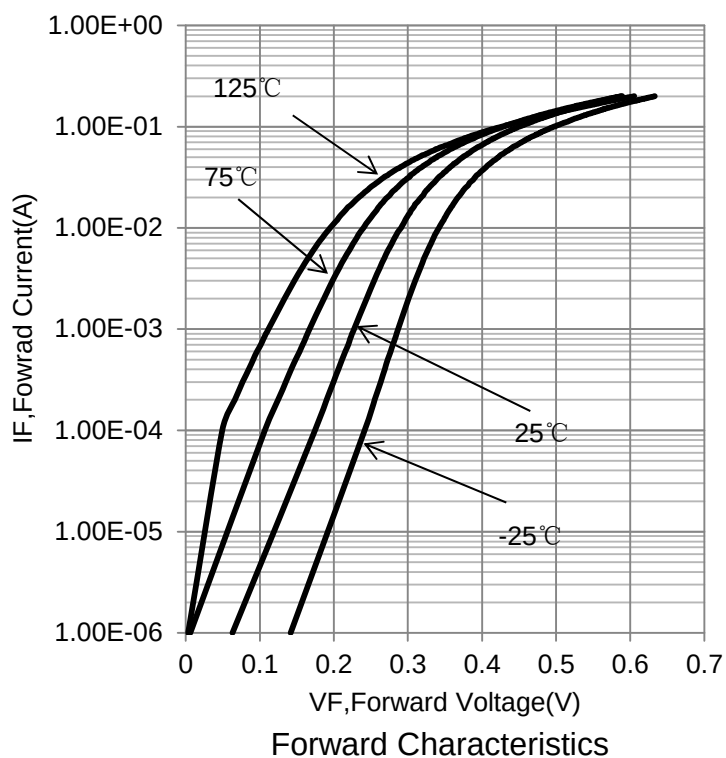
Maximum Ratings (T_A = 25 °C, unless otherwise specified)

Parameter	Symbol	Value	Unit
Working peak reverse voltage	V _{RM}	30	V
RMS reverse voltage	V _{R(RMS)}	30	V
Average rectified forward current	I _O	100	mA
Forward current surge peak(60Hz · 1cyc)	I _{FSM}	500	mA
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-40 to +125	°C

ELECTRICAL CHARACTERISTICS (Ta= 25°C)

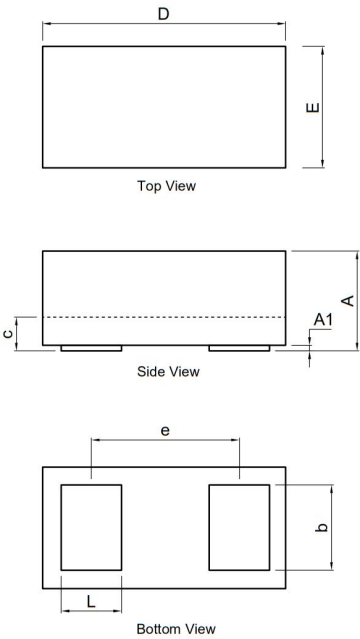
Characteristic	Symbol	Min	Typ	Max	Unit	Condition
Forward voltage	V_F	--	--	0.38	V	$I_F = 10\text{mA}$
Reverse breakdown voltage	V_{BR}	30	--	--	V	$I_R = 50\mu\text{A}$
Reverse current	I_R	--	--	10	μA	$V_R = 10\text{V}$

ELECTRICAL CHARACTERISTICS CURVES



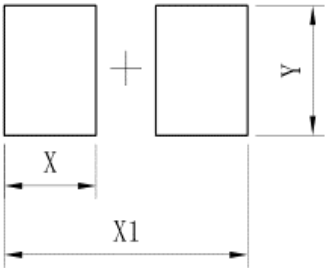
OUTLINE AND DIMENSIONS

DFN0603-2L



SYMBOL	Dimensions In Millimet	
	MIN	MAX
A	0.27	0.35
A1	0	0.05
b	0.20	0.32
c	0.05	0.15
D	0.55	0.65
E	0.25	0.35
L	0.13	0.24

SOLDERING FOOTPRINT



DFN0603-2L	
DIM	(mm)
X	0.23
X1	0.61
Y	0.30