

Features

- Ultra Small mold type (DFN0603-2)
- High Speed
- High reliability

Applications

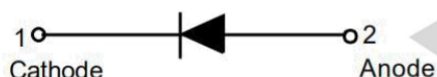
- Low current rectification

Application information

- High speed switching

Mechanical Characteristics

- Mounting position: Any



DFN0603-2



Absolute Maximum Ratings (T_{amb}=25°C unless otherwise specified)

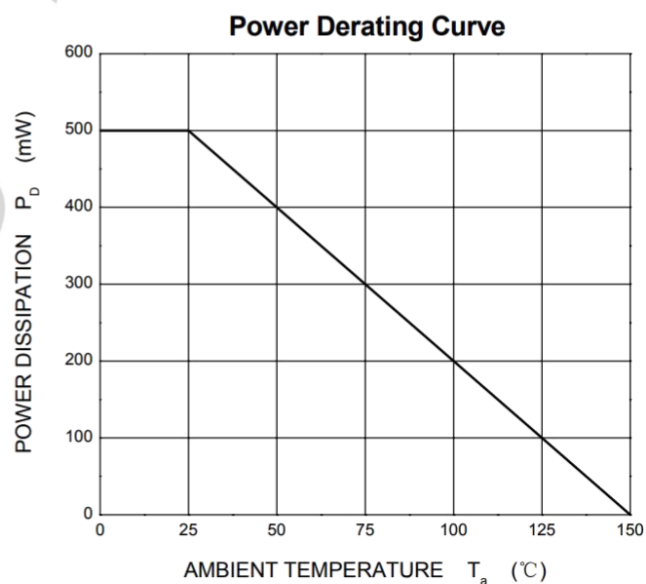
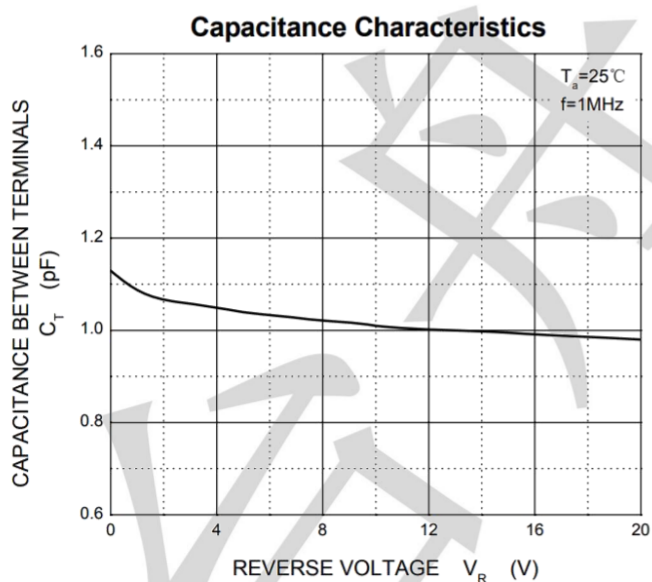
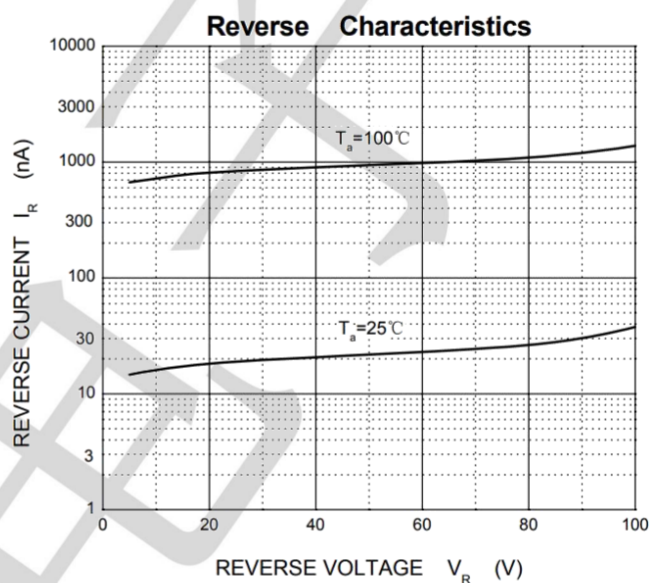
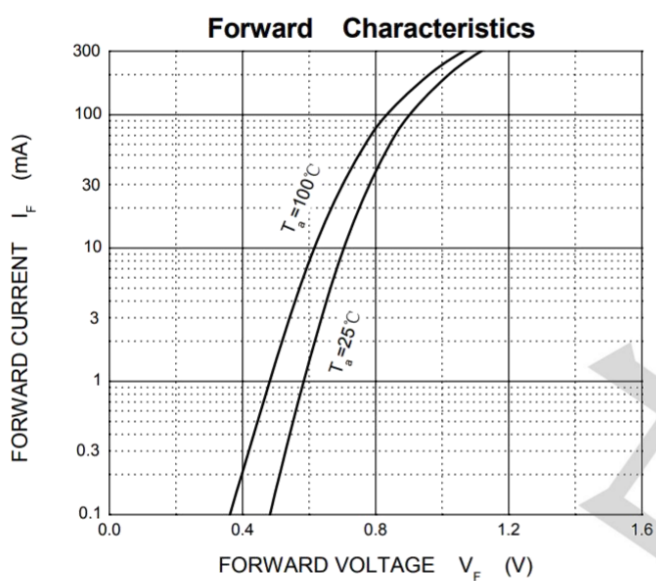
Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Peak Reverse Voltage	V _{RRM}	80	V
Working Peak Reverse Voltage	V _{RWM}	80	V
DC Blocking Voltage	V _R	80	V
RMS Reverse Voltage	V _{R(RMS)}	57	V
Average Rectified Output Current	I _o	150	mA
Forward Current	I _{FM}	250	mA
Peak Forward Surge Current, 1s Single Half-sine-wave	I _{FSM}	1	A
Power Dissipation	P _D	200	mW
Operating Junction temperature Range	T _J	-65 to +150	°C
Storage Temperature Range	T _{stg}	-65 to +150	°C

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

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage	V _{(BR)R}	80	--	--	V	I _R = 100μA
Forward voltage	V _F	--	1.0	1.25	V	I _F = 150mA
Maximum Peak Reverse Current	I _R	--	--	100	nA	V _R = 80V
Junction Capacitance	C _j	--	--	3	PF	V _R = 0.5V, f = 1.0MHz
Reverse Recovery Time	t _{rr}	--	--	4	ns	I _F = I _R = 10mA I _{rr} = 0.1×I _R , R _L = 100Ω

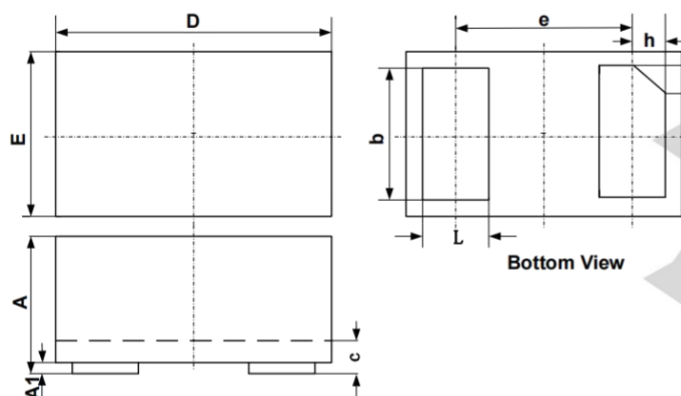
Ratings and Characteristics Curves

(@ $T_A = 25^\circ\text{C}$ unless otherwise specified)



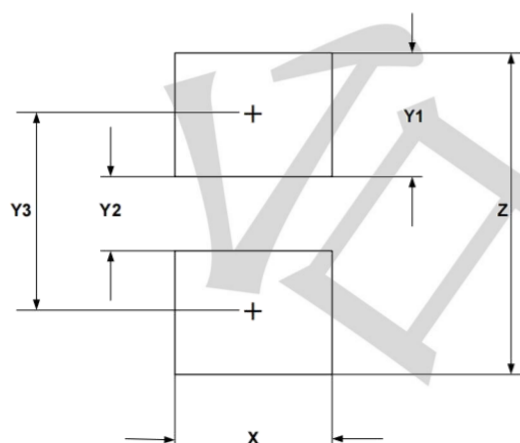
Package Outline & Dimensions

DFN0603-2 (0201)



SYM	DIMENSIONS		
	MILLIMETERS		
	MIN	NOM	MAX
A	0.230	0.300	0.330
A1	0.000	0.020	0.050
b	0.215	0.245	0.275
c	0.120	0.150	0.180
D	0.550	0.600	0.650
e	0.355 BSC		
E	0.250	0.300	0.350
L	0.160	0.190	0.220
h	0.079 BSC		

Suggested Land Pattern



SYM	DIMENSIONS	
	MILLIMETERS	INCHES
X	0.30	0.012
Y1	0.25	0.010
Y2	0.15	0.006
Y3	0.40	0.016
Z	0.65	0.026