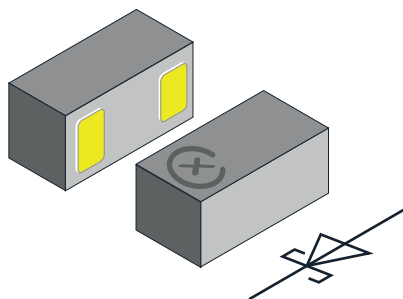


# Small Signal Schottky Diode FlipKY® Gen 2



## MARKING (example only)



1 = year code

Open circle = month code and pin 1

XY = type code

## LINKS TO ADDITIONAL RESOURCES



3D Models

SPICE

Models



Related Documents



Footprints

## FEATURES

- Schottky diode for high-speed switching
- Very low dimensions:  
0.6 mm x 0.3 mm x 0.29 mm
- 0.2 A forward current
- Low forward voltage drop (typ. 435 mV at 0.2 A)
- Low reverse current (< 3  $\mu$ A at 10 V)
- Material categorization:  
for definitions of compliance please see  
[www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**  
**GREEN**  
(5-2008)

## PARTS TABLE

PART	ORDERING CODE	CIRCUIT CONFIGURATION	PACKAGE NAME	TYPE MARKING	WEIGHT	TAPED UNITS PER REEL (8 mm TAPE ON 7" REEL)	MINIMUM ORDER QUANTITY
VSKY02300603	VSKY02300603-G4-08	Single	CLP0603-2M	23	0.115 mg	15 000	15 000

## ABSOLUTE MAXIMUM RATINGS ( $T_{amb} = 25^{\circ}\text{C}$ , unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Reverse voltage		$V_R$	30	V
Forward continuous current		$I_F$	200	mA
Surge forward current	8.3 ms half sine-wave	$I_{FSM}$	6	A
Power dissipation	Footprint acc. Fig. 4	$P_{tot}$	278	mW
	Infinite heat sink		1712	

## THERMAL CHARACTERISTICS ( $T_{amb} = 25^{\circ}\text{C}$ , unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Thermal resistance junction to ambient air	Acc. JEDEC® 51-3 with footprint acc. Fig. 4	$R_{thJA}$	450	K/W
Thermal resistance junction to soldering point	Infinite heat sink	$R_{thJS}$	73	
Maximum operating junction temperature		$T_J$	150	$^{\circ}\text{C}$
Storage temperature range		$T_{stg}$	-65 to +150	

## ELECTRICAL CHARACTERISTICS ( $T_{amb} = 25^{\circ}\text{C}$ , unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	TYP.	MAX.	UNIT
Leakage current	$V_R = 10\text{ V}$	$I_R$		3	$\mu\text{A}$
	$V_R = 30\text{ V}$	$I_R$		10	
Forward voltage	$I_F = 10\text{ mA}$	$V_F$	295	350	mV
	$I_F = 100\text{ mA}$	$V_F$	385	460	
	$I_F = 200\text{ mA}$	$V_F$	435	500	
Diode capacitance	$V_R = 0\text{ V}$ , $f = 1\text{ MHz}$	$C_D$	33		pF

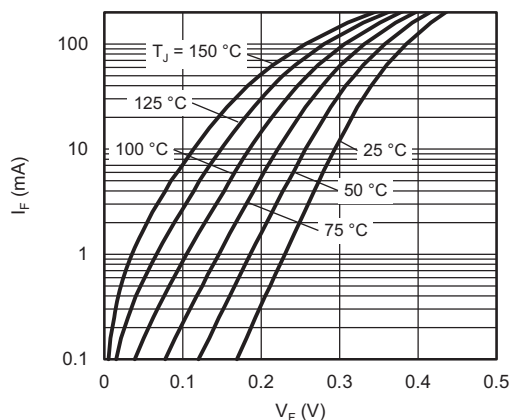
**RATINGS AND CHARACTERISTICS CURVES** ( $T_A = 25\text{ }^{\circ}\text{C}$  unless otherwise noted)


Fig. 1 - Typical Forward Current vs. Forward Voltage at Various Temperatures

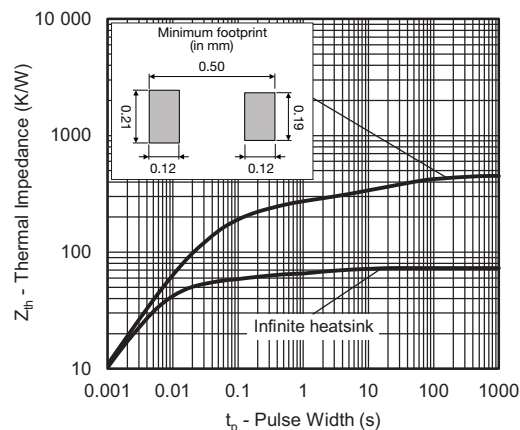


Fig. 4 - Typical Thermal Impedance vs. Time

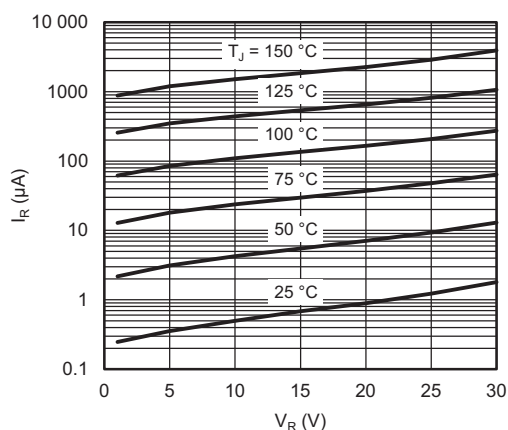


Fig. 2 - Typical Reverse Leakage Current vs. Reverse Voltage at Various Temperatures

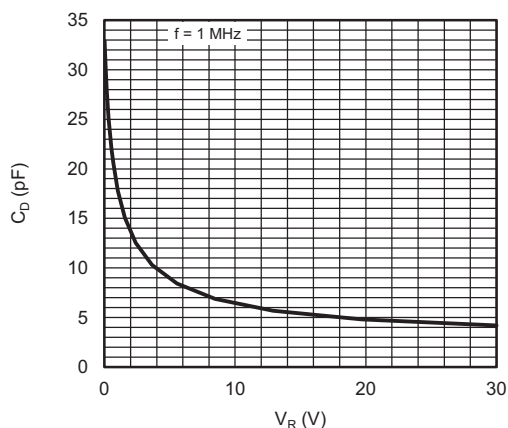
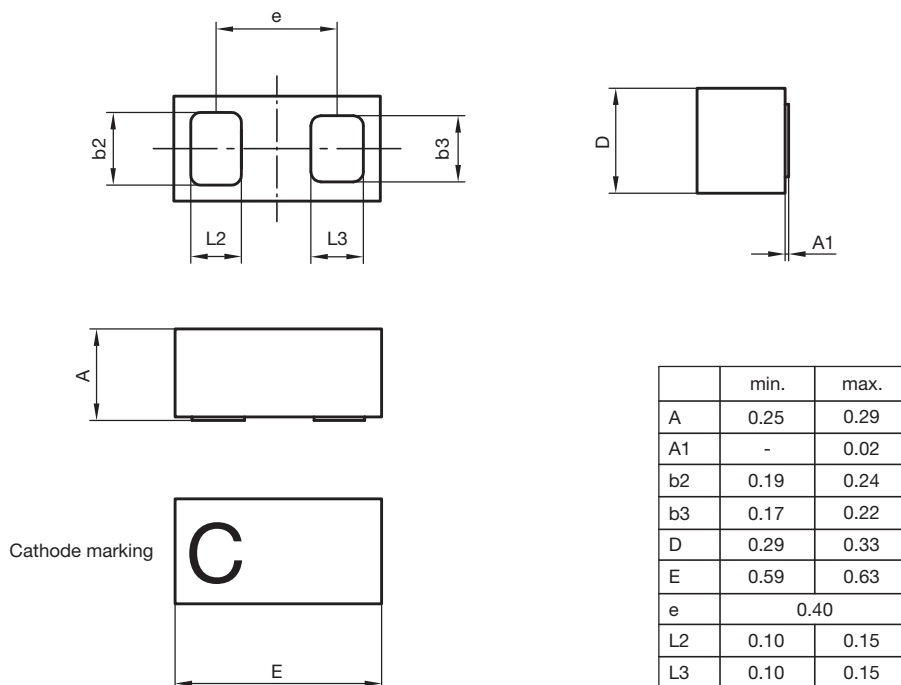


Fig. 3 - Typical Capacitance vs. Reverse Voltage

**PACKAGE DIMENSIONS** in millimeters: **CLP0603-2M**


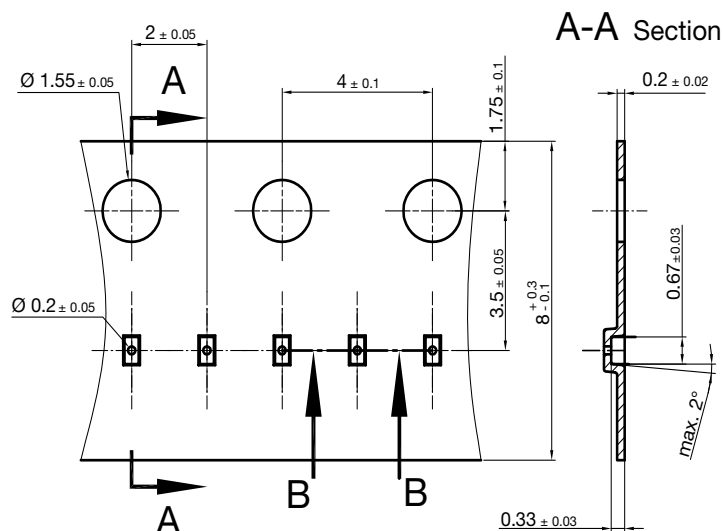
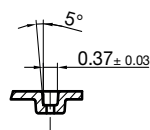
Document no.: S8-V-3906.04-038 (4)

Rev.3 - Date: 15. Feb. 2017

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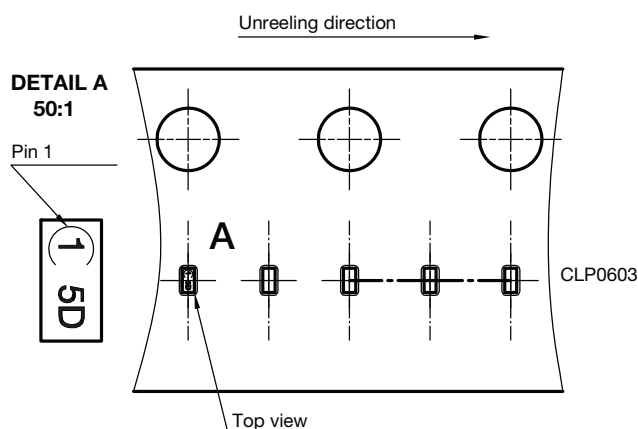
**Footprint and soldering recommendation:**

please see Application Note: [www.vishay.com/doc?85917](http://www.vishay.com/doc?85917)

**CARRIER TAPE** in millimeters: **CLP0603**

**B-B Section**


Cummulative tolerances of 10 sprocket holes is +/-0.2 mm

22591  
Document no. S8-V-3906.04-0025 (4)  
Created - Date: 22. Nov. 2010

**ORIENTATION IN CARRIER CLP0603**


22936

Orientation in Carrier Tape (CLP0603)  
S8-V-3906.04-026 (4)  
22.10.2010



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