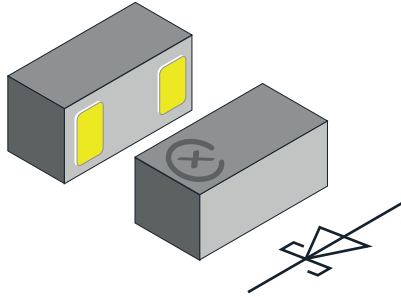


## Small Signal Schottky Diode FlipKY<sup>®</sup> Gen 2


**MARKING** (example only)


1 = year code  
 Open circle = month code and pin 1  
 XY = type code

**MECHANICAL DATA**
**Case:** CLP0603-2M

**LINKS TO ADDITIONAL RESOURCES**

**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. 475 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)


**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
VSKY02400603	VSKY02400603-G4-08	Single	CLP0603-2M	24	0.115 mg	15 000	15 000

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

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Reverse voltage		$V_R$	40	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** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$ , unless otherwise specified)

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

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

PARAMETER	TEST CONDITION	SYMBOL	TYP.	MAX.	UNIT
Leakage current	$V_R = 10\text{ V}$	$I_R$		3	$\mu\text{A}$
	$V_R = 40\text{ V}$	$I_R$		10	$\mu\text{A}$
Forward voltage	$I_F = 10\text{ mA}$	$V_F$	295	360	mV
	$I_F = 100\text{ mA}$	$V_F$	400	490	mV
	$I_F = 200\text{ mA}$	$V_F$	475	540	mV
Diode capacitance	$V_R = 0\text{ V}$ , $f = 1\text{ MHz}$	$C_D$	30		pF

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

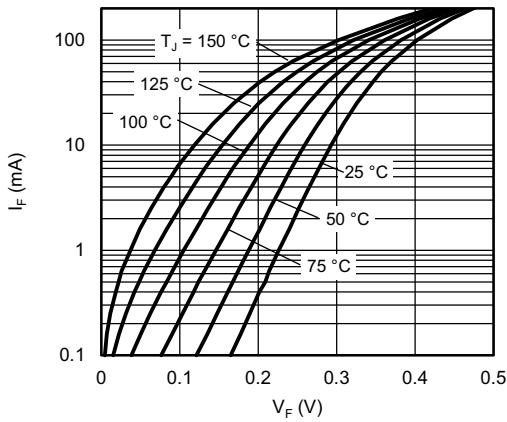


Fig. 1 - Typical Forward Current vs. Forward Voltage at Various Temperatures

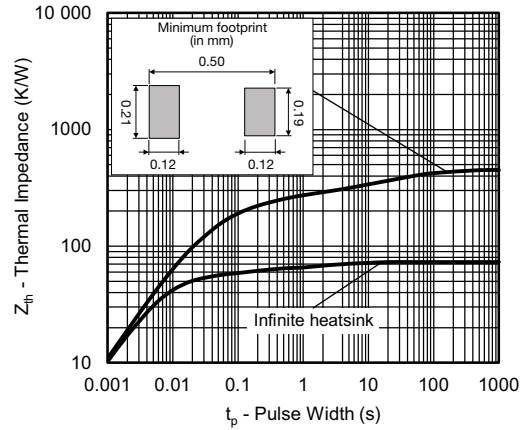


Fig. 4 - Typical Thermal Impedance

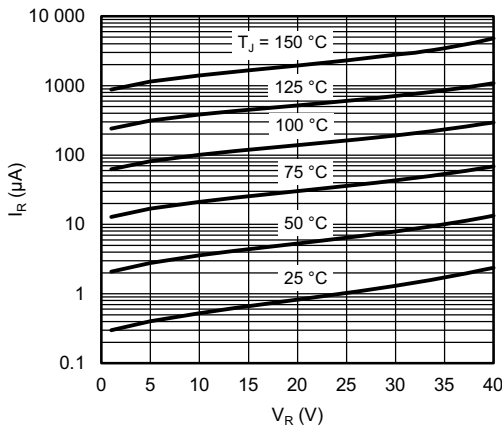


Fig. 2 - Typical Reverse Leakage Current vs. Reverse Voltage at Various Temperatures

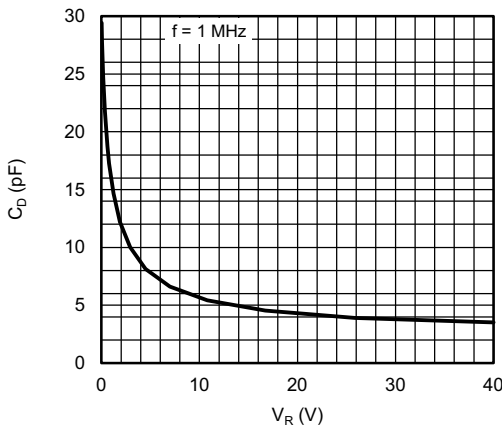
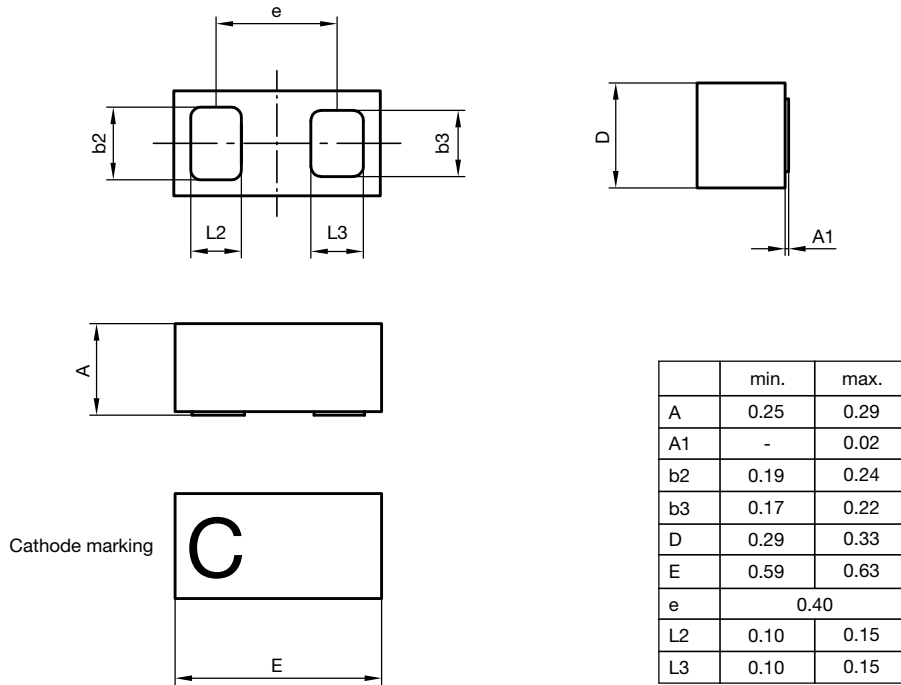


Fig. 3 - Typical Capacitance vs. Reverse Voltage

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


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

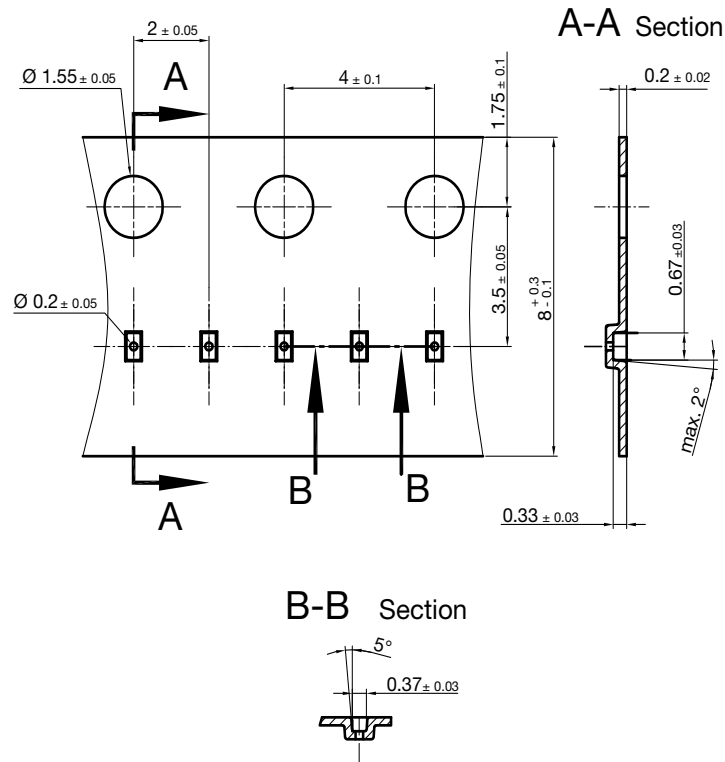
Rev.3 - Date: 15. Feb. 2017

22825

**Footprint and soldering recommendation:**

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

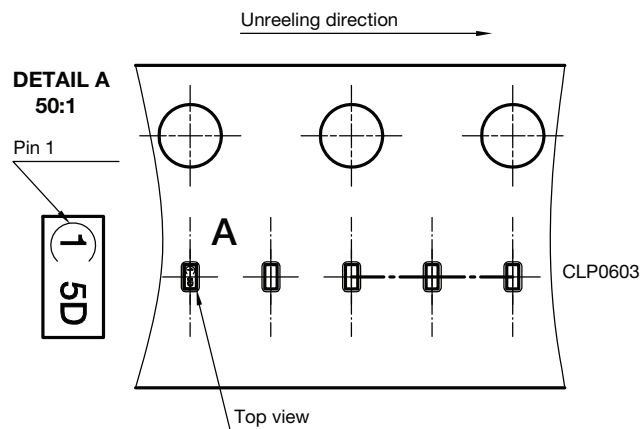
**CARRIER TAPE** in millimeters: **CLP0603**



Cummulative tolerances of 10 sprocket holes is  $\pm 0.2$  mm

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

**ORIENTATION IN CARRIER CLP0603**



Orientation in Carrier Tape (CLP0603)  
S8-V-3906.04-026 (4)  
22.10.2010  
22936



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