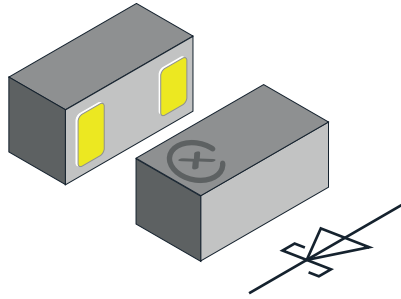


Small Signal Schottky Diode FlipKY® Gen 2



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 µA at 10 V)
- Material categorization:
for definitions of compliance please see www.vishay.com/doc?99912



MARKING (example only)



22545

1 = year code

Open circle = month code and pin 1

XY = type code

LINKS TO ADDITIONAL RESOURCES



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 °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 °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	°C
Storage temperature range		T _{stg}	-65 to +150	

ELECTRICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	TYP.	MAX.	UNIT
Leakage current	V _R = 10 V	I _R		3	µA
	V _R = 30 V	I _R		10	
Forward voltage	I _F = 10 mA	V _F	295	350	mV
	I _F = 100 mA	V _F	385	460	
	I _F = 200 mA	V _F	435	500	
Diode capacitance	V _R = 0 V, f = 1 MHz	C _D	33		pF

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

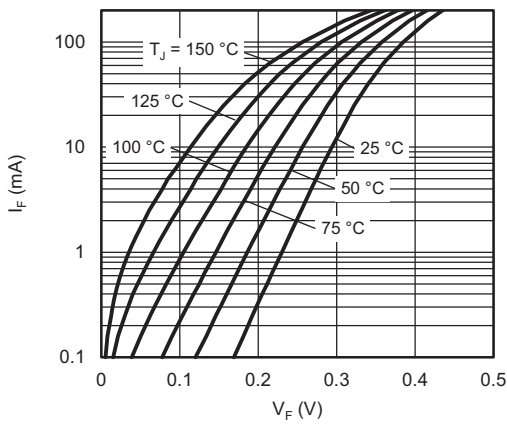


Fig. 1 - Typical Forward Current vs. Forward Voltage at Various Temperatures

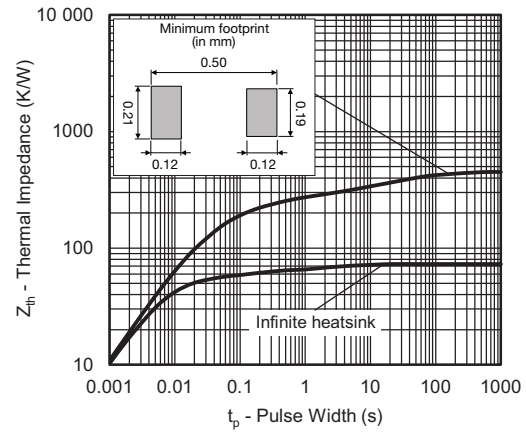


Fig. 4 - Typical Thermal Impedance vs. Time

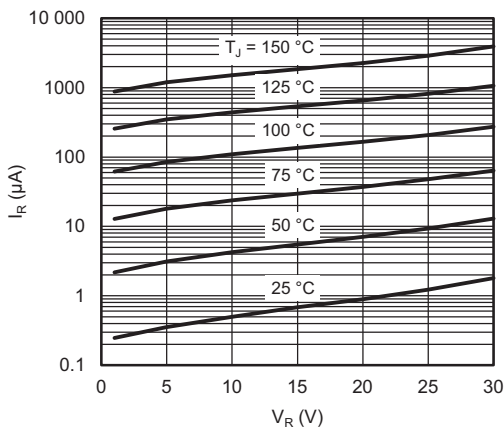


Fig. 2 - Typical Reverse Leakage Current vs. Reverse Voltage at Various Temperatures

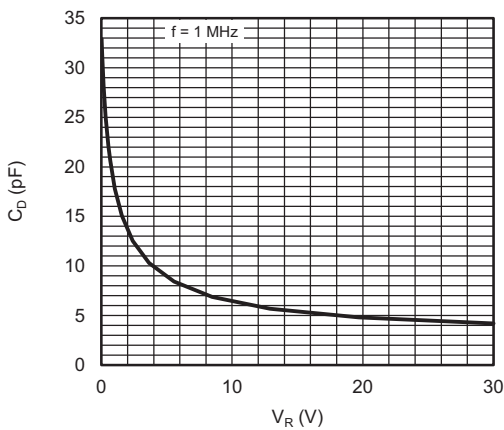
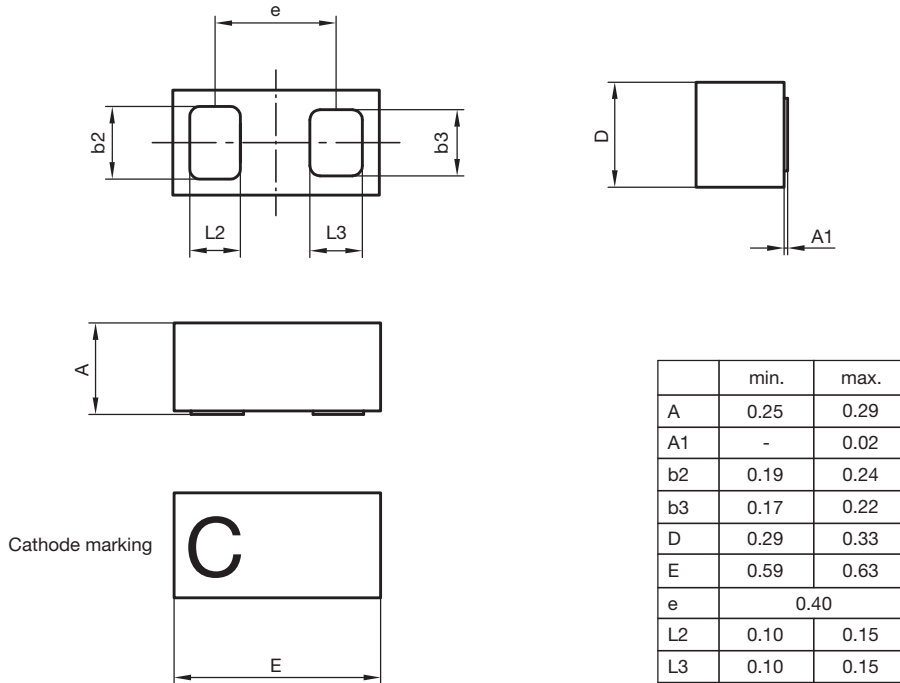


Fig. 3 - Typical Capacitance vs. Reverse Voltage

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

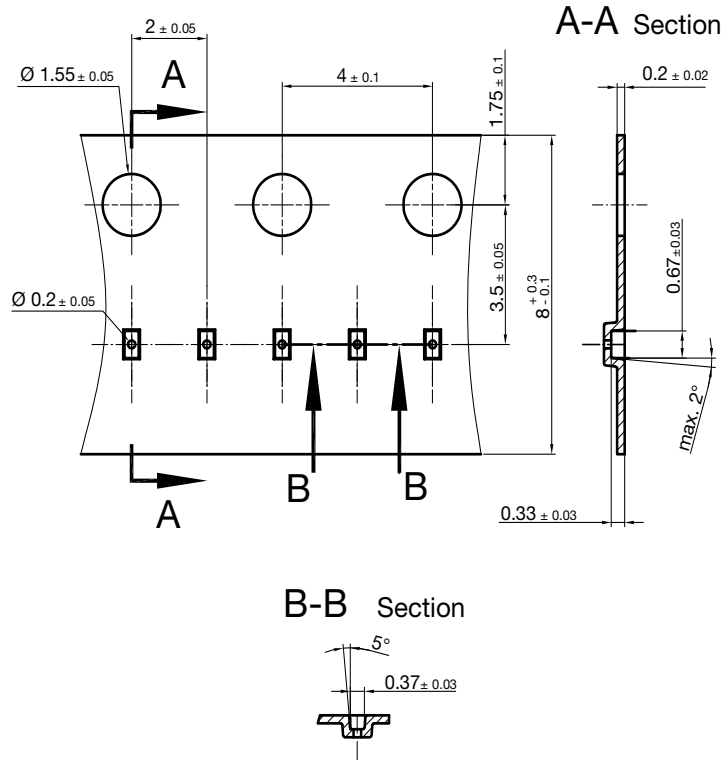


Document no.: S8-V-3906.04-038 (4)
 Rev.3 - Date: 15. Feb. 2017
 22825

Footprint and soldering recommendation:

please see Application Note: www.vishay.com/doc?85917

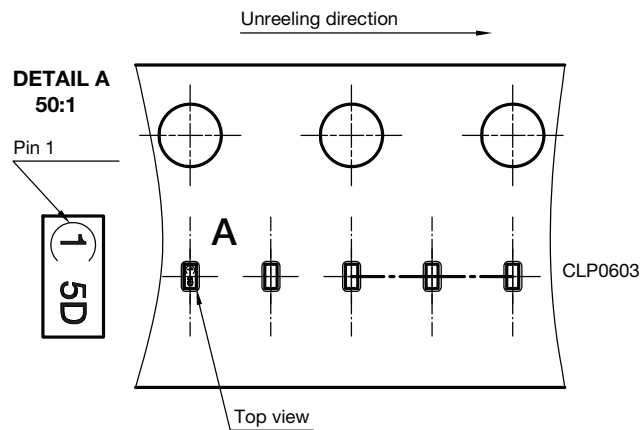
CARRIER TAPE in millimeters: **CLP0603**



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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