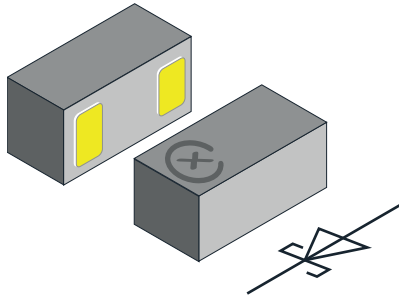


Small Signal Schottky Diode FlipKY[®] Gen 2



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. 475 mV at 0.2 A)
- Low reverse current (< 3 μ A at 10 V)
- Material categorization:
for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

DESIGN SUPPORT TOOLS AVAILABLE



MECHANICAL DATA

Case: CLP0603-2M

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 °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 °C, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Thermal resistance junction to ambient air	Acc. JEDEC [®] 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	°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	μ A
	V _R = 40 V	I _R		10	μ A
Forward voltage	I _F = 10 mA	V _F	295	360	mV
	I _F = 100 mA	V _F	400	490	mV
	I _F = 200 mA	V _F	475	540	mV
Diode capacitance	V _R = 0 V, f = 1 MHz	C _D	30		pF

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

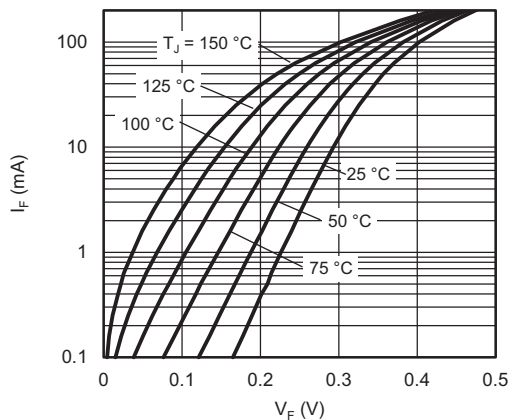


Fig. 1 - Typical Forward Current vs. Forward Voltage at Various Temperatures

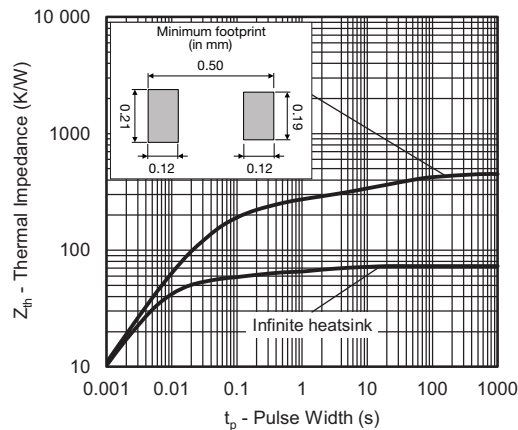


Fig. 4 - Typical Thermal Impedance

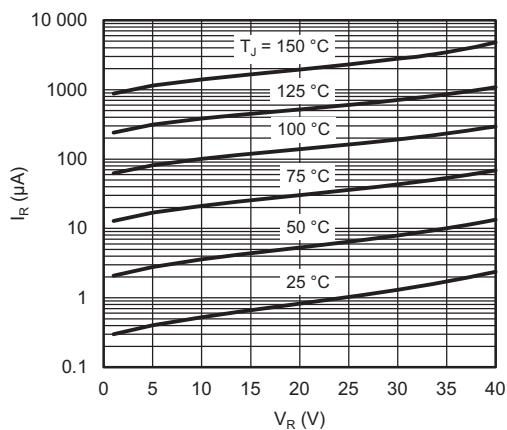


Fig. 2 - Typical Reverse Leakage Current vs. Reverse Voltage at Various Temperatures

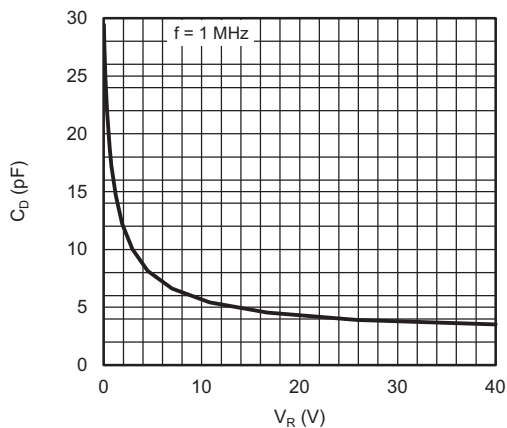
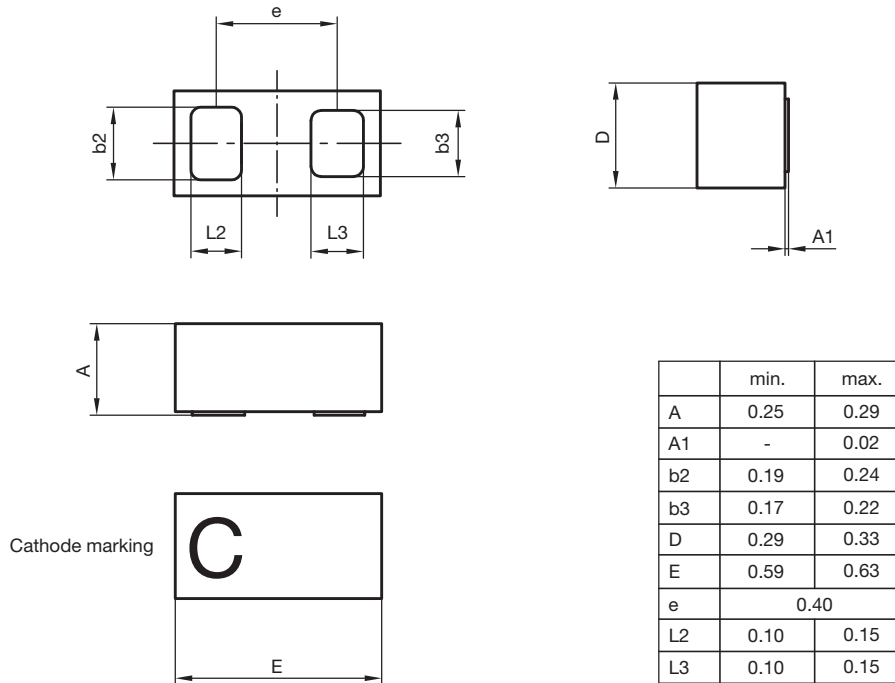


Fig. 3 - Typical Capacitance vs. Reverse Voltage

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


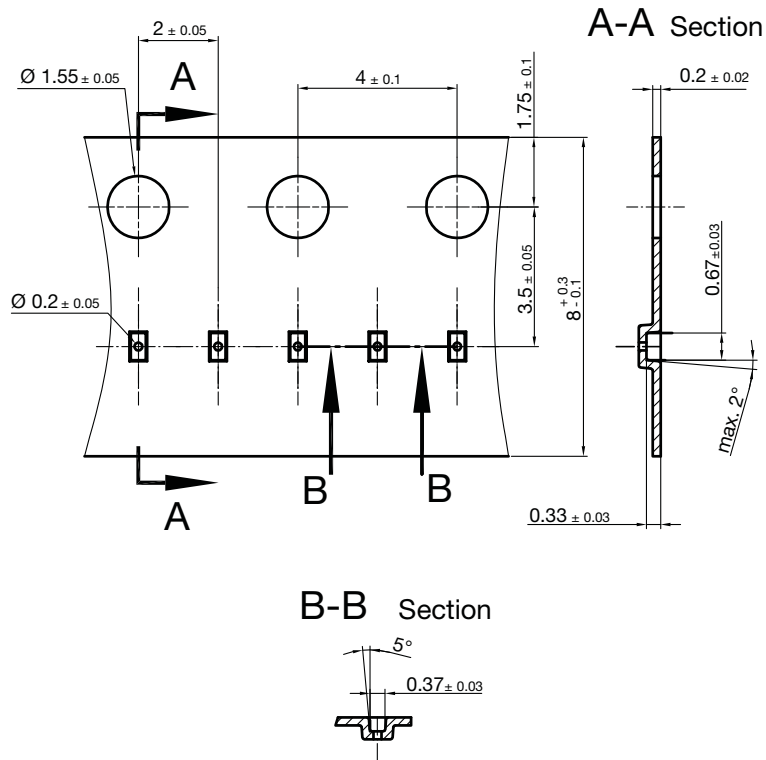
Document no.: S8-V-3906.04-038 (4)
 Rev.3 - Date: 15. Feb. 2017
 22825

Footprint and soldering recommendation:

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



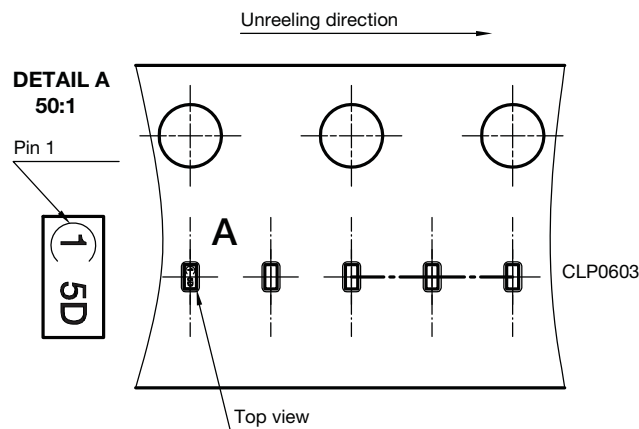
CARRIER TAPE in millimeters: CLP0603



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

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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