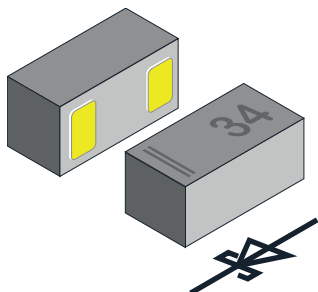


Small Signal Schottky Diode FlipKY® Gen 3



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 200 mA)
- Low reverse current (< 3 µA at 10 V)
- AEC-Q101 qualified
- Material categorization:
for definitions of compliance please see
www.vishay.com/doc?99912



LINKS TO ADDITIONAL RESOURCES



PARTS TABLE

PART	GRADE	ORDERING CODE	CIRCUIT CONFIGURATION	PACKAGE NAME	TYPE MARKING	WEIGHT	TAPED UNITS PER REEL (8 mm TAPE ON 7" REEL)	MINIMUM ORDER QUANTITY
VSKY024063	AEC-Q101	VSKY024063HG4-08	Single	CLP0603-2M	34	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	Single pulse; 8.3 ms half sine-wave	I _{FSM}	6	A

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

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Thermal resistance junction to soldering point	Acc. JEDEC® JESD51-14	R _{thJS}	24	K/W
Maximum operating junction temperature		T _j max.	150	°C
Storage temperature range		T _{stg}	-65 to +150	°C

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
Leakage current	V _R = 40 V	I _R	-	10	µA
Forward voltage	I _F = 10 mA	V _F	295	360	mV
Forward voltage	I _F = 100 mA	V _F	400	460	mV
Forward voltage	I _F = 200 mA	V _F	475	540	mV
Diode capacitance	V _R = 0 V, f = 1 MHz	C _D	30	-	pF

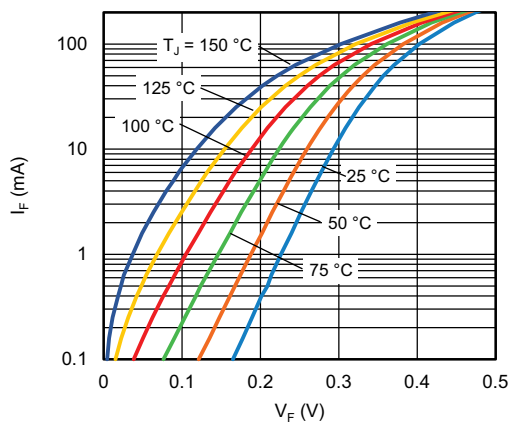
RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)


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

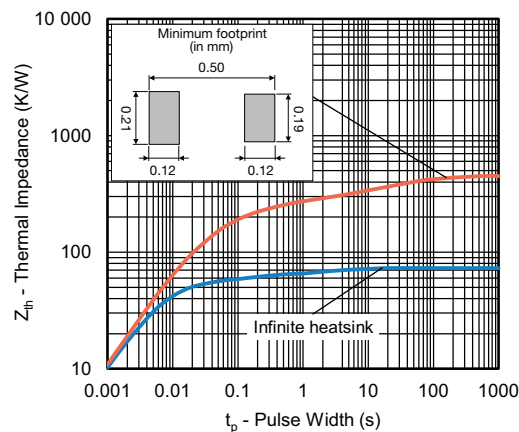


Fig. 4 - Typical Thermal Impedance

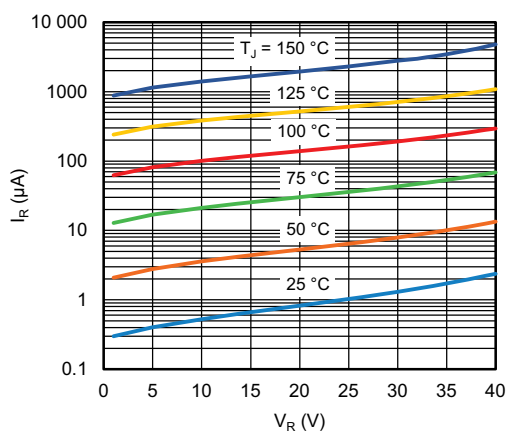


Fig. 2 - Typical Reverse Leakage Current vs. Reverse Voltage at Various Temperatures

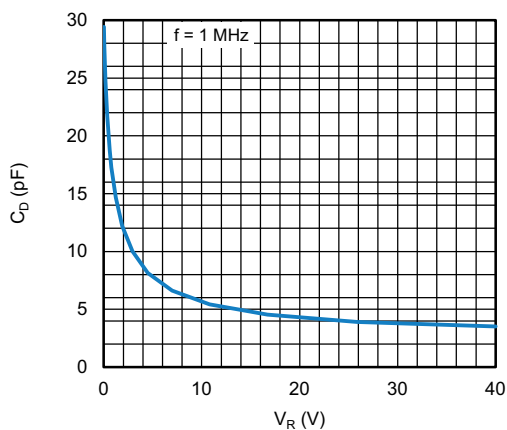
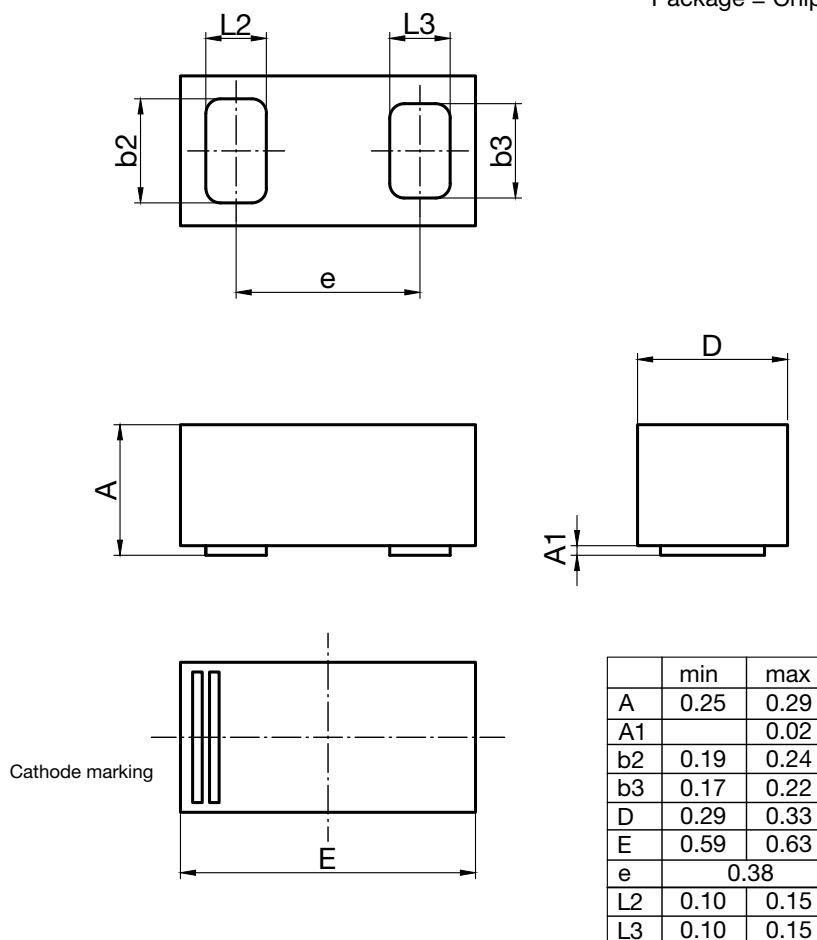


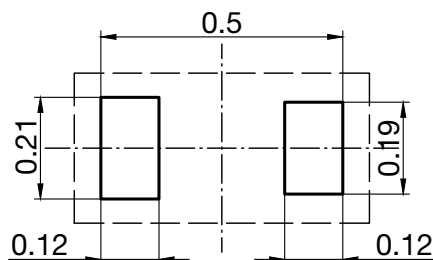
Fig. 3 - Typical Capacitance vs. Reverse Voltage

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

Package = Chip Dimensions in mm



foot print recommendation:



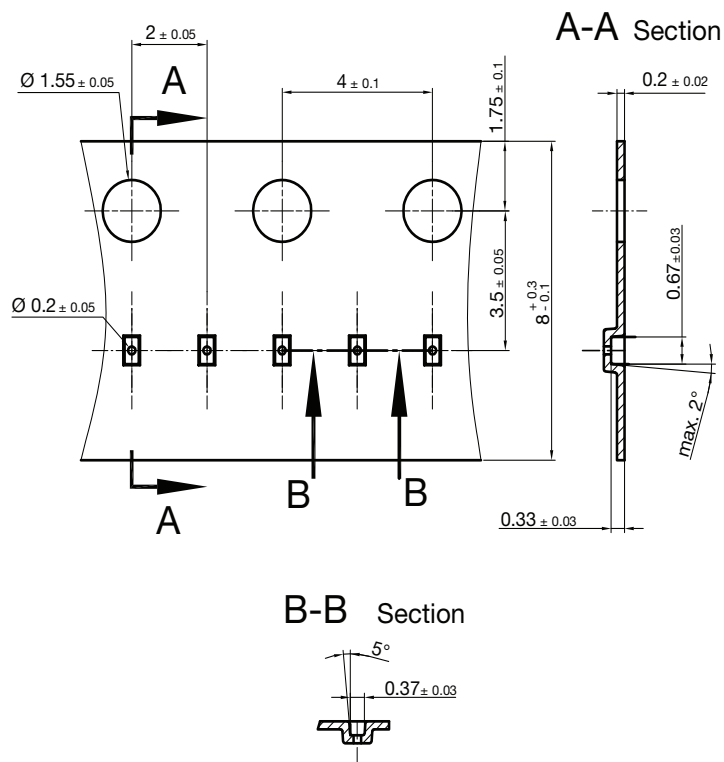
Created - Date: 01. April 2015
Rev.4 - Date: 19. Dec. 2023
Document no.:S8-V-3906.04-038 (4)
23234

Footprint and soldering recommendation:

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

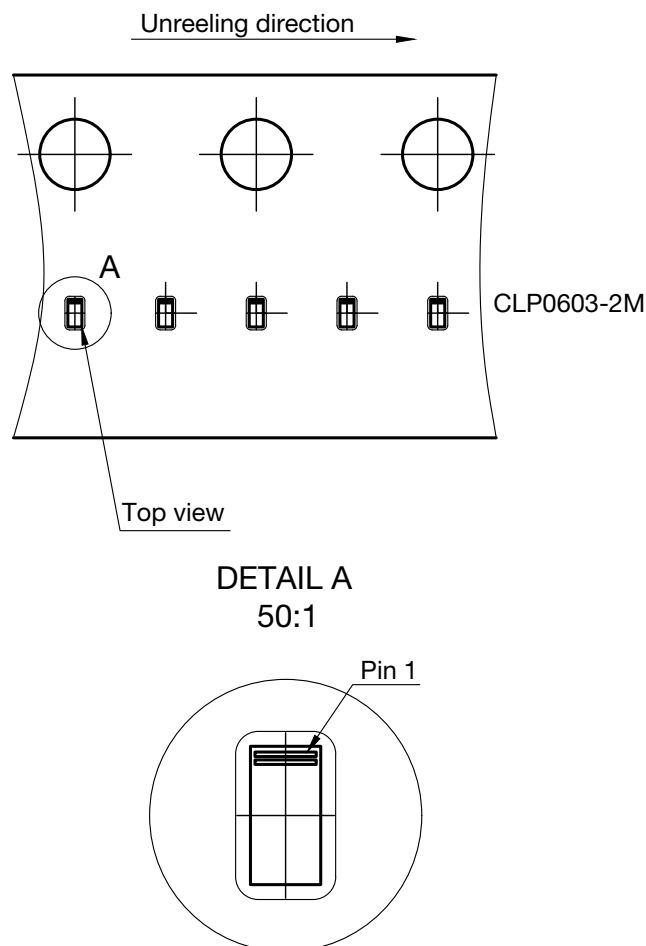


CARRIER TAPE in millimeters: **CLP0603-2M**



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 CLP0603-2M


Orientation in Carrier Tape CLP0603-2M
S8-V-3906.04-070 (4)
19.01.2024



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