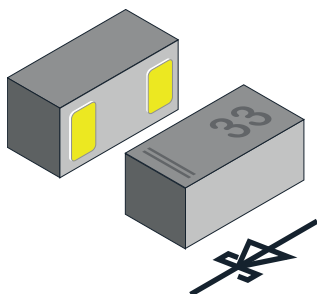


Small Signal Schottky Diode FlipKY® Gen 3



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



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
VSKY023063	AEC-Q101	VSKY023063HG4-08	Single	CLP0603-2M	33	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	Single pulse; 8.3 ms half sine-wave	I_{FSM}	5	A

THERMAL CHARACTERISTICS ($T_{amb} = 25^{\circ}\text{C}$, 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		$T_j \text{ max.}$	150	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-65 to +150	$^{\circ}\text{C}$

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	μA
Leakage current	$V_R = 30 \text{ V}$	I_R	-	10	μA
Forward voltage	$I_F = 10 \text{ mA}$	V_F	295	360	mV
Forward voltage	$I_F = 100 \text{ mA}$	V_F	385	440	mV
Forward voltage	$I_F = 200 \text{ mA}$	V_F	435	520	mV
Diode capacitance	$V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_D	33	-	pF

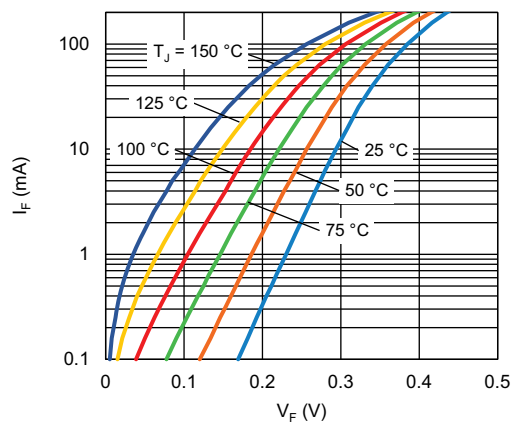
RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)


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

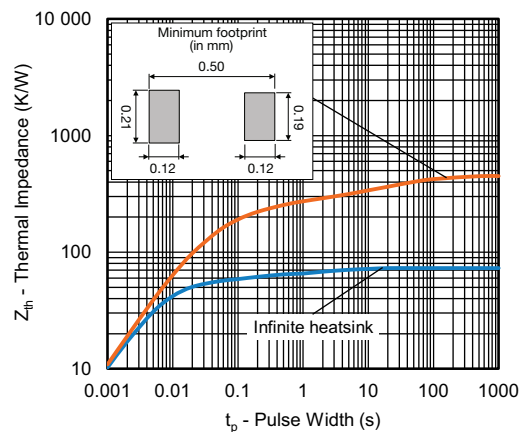


Fig. 4 - Typical Thermal Impedance vs. Time

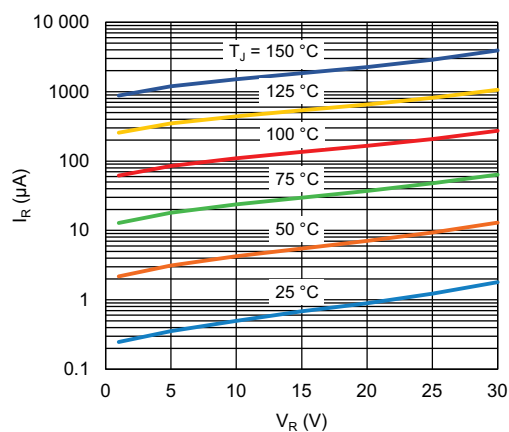


Fig. 2 - Typical Reverse Leakage Current vs. Reverse Voltage at Various Temperatures

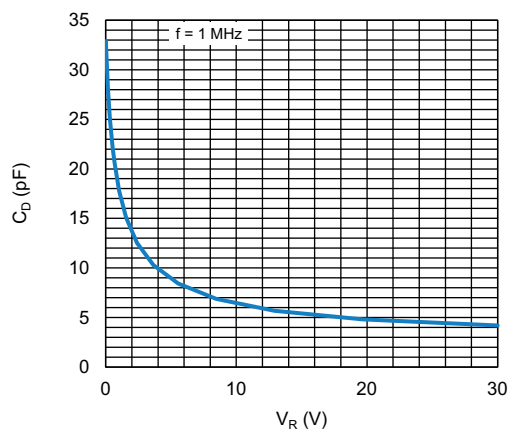
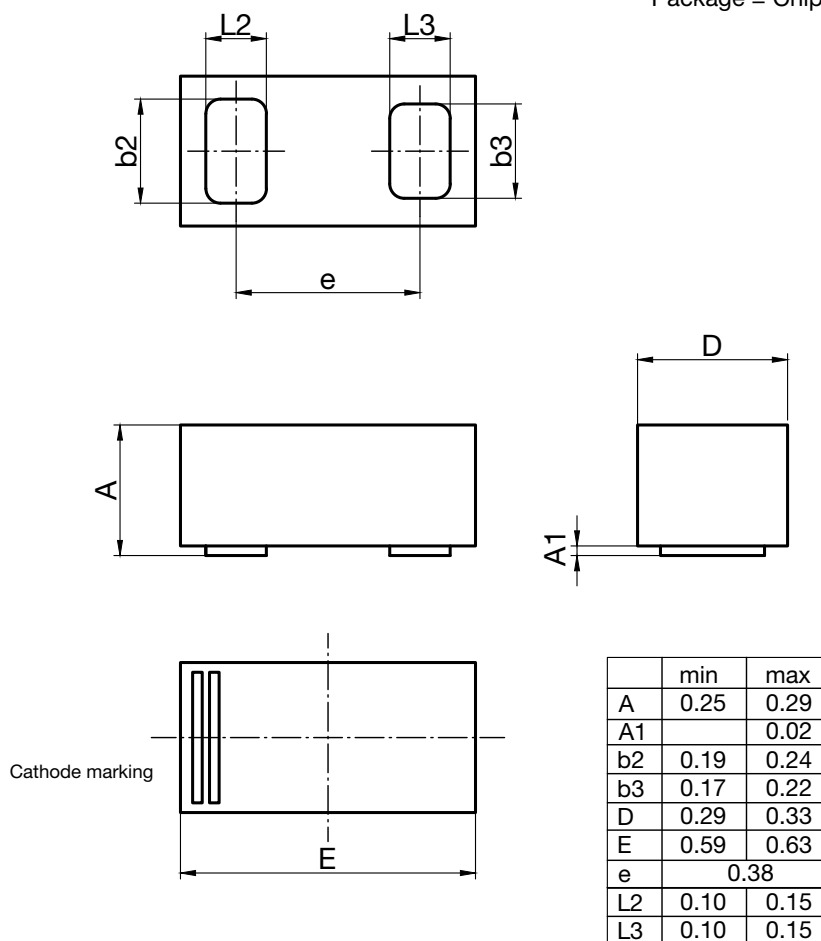


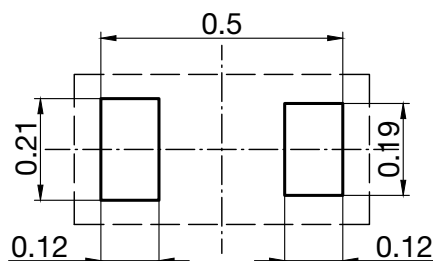
Fig. 3 - Typical Capacitance vs. Reverse Voltage

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

Package = Chip Dimensions in mm



foot print recommendation:



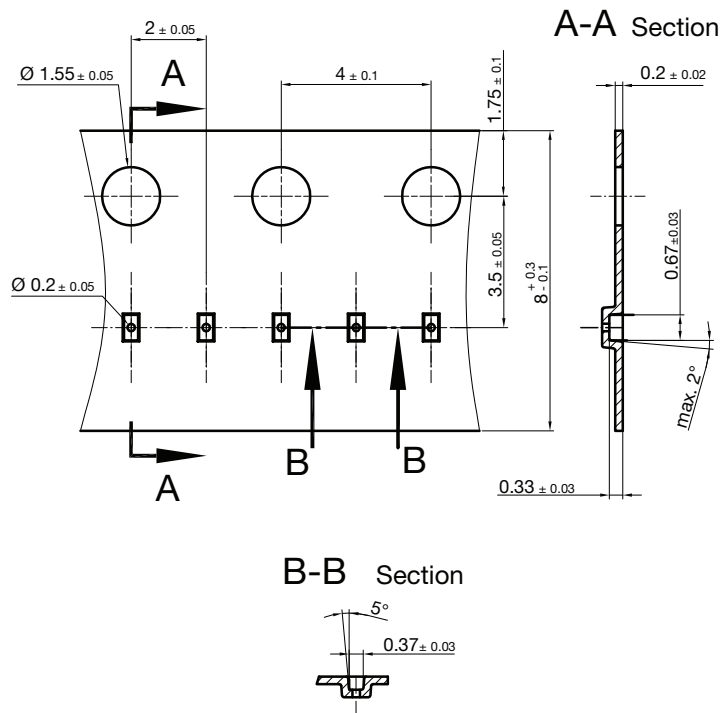
Created - Date: 01. April 2015
Rev.4 - Date: 19. Dec. 2023
Document no.:S8-V-3906.04-038 (4)
23234

Footprint and soldering recommendation:

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

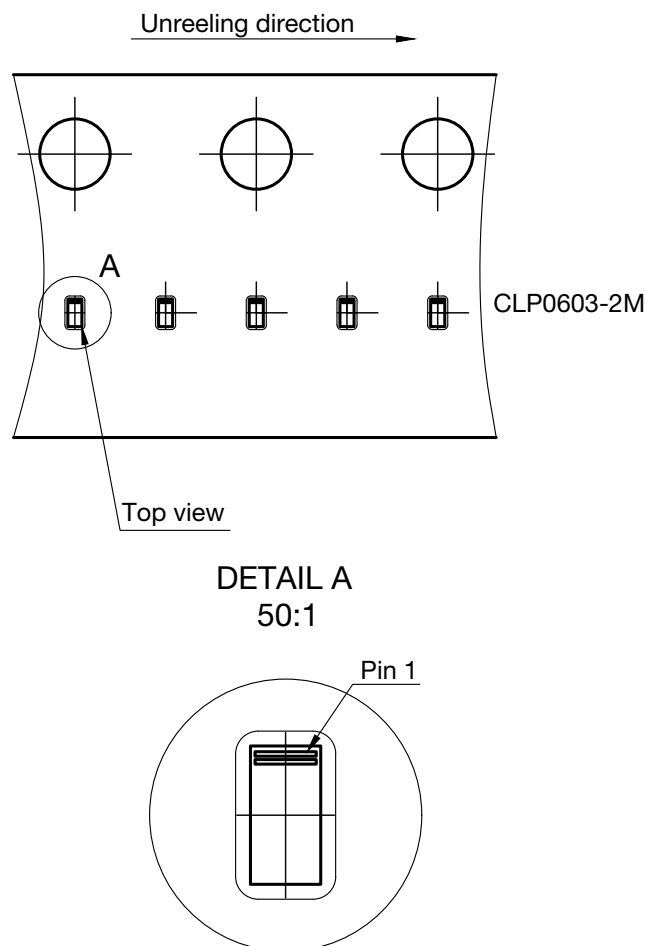


CARRIER TAPE in millimeters: **CLP0603-2M**



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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