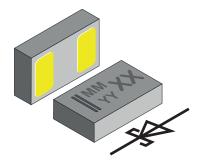
Schottky Rectifier Surface-Mount FlipKY[®] Gen 2



www.vishay.com

DESIGN SUPPORT TOOLS AVAILABLE

ISHA



FEATURES

- Schottky diode for high-speed switching
- Very low dimensions: 1.0 mm x 0.6 mm x 0.29 mm
- 0.5 A forward current
- Low forward voltage drop (typ. 425 mV at 0.5 A)
- Low reverse current (< 15 µA at 10 V)
- Material categorization:
 - for definitions of compliance please see www.vishay.com/doc?99912





FREE

GREEN

(5-2008)

PARTS TABLE							
PART	ORDERING CODE	CIRCUIT CONFIGURATION	PACKAGE NAME	TYPE CODE	WEIGHT	TAPED UNITS PER REEL (8 mm TAPE ON 7" REEL)	MINIMUM ORDER QUANTITY
VSKY05401006	VSKY05401006-G4-08	Single	CLP1006-2L	4A	0.400 mg	10 000	10 000

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Maximum repetitive reverse voltage		V _{RRM}	40	V
Maximum average forward rectified current		I _{F(AV)}	0.5	А
Surge forward current	8.3 ms half sine-wave	I _{FSM}	12	А
Power dissipation	Footprint acc. fig. 4	P _{tot}	450	mW

THERMAL CHARACTERISTICS ($T_{amb} = 25 \degree C$, 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}	280	K/W
Maximum operating junction temperature		Tj	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
Leekage eurrent	V _R = 10 V	I _R	-	15	μA
Leakage current	V _R = 40 V	I _R	-	75	μA
Forward valtage	I _F = 100 mA	V _F	0.330	0.360	V
Forward voltage	I _F = 0.5 A	V _F	0.425	0.460	V
Diode capacitance	V _R = 0 V, f = 1 MHz	CD	140	-	pF

Rev. 1.3, 27-Feb-2019 Document Number: 85903 1 For technical questions within your region: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishav.com/doc?91000



RATINGS AND CHARACTERISTICS CURVES ($T_A = 25$ °C unless otherwise noted)

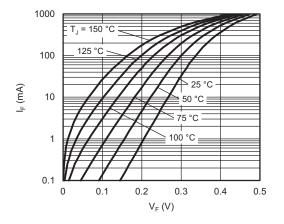


Fig. 1 - Typical Forward Current vs. Forward Voltage

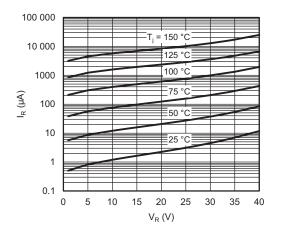


Fig. 2 - Typical Reverse Leakage Current vs. Reverse Voltage

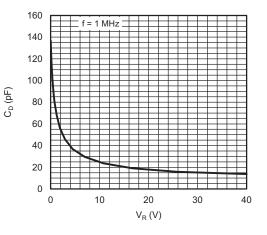


Fig. 3 - Typical Capacitance vs. Reverse Voltage

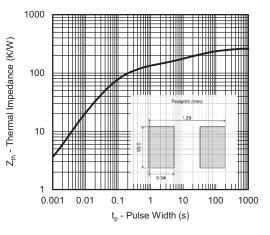
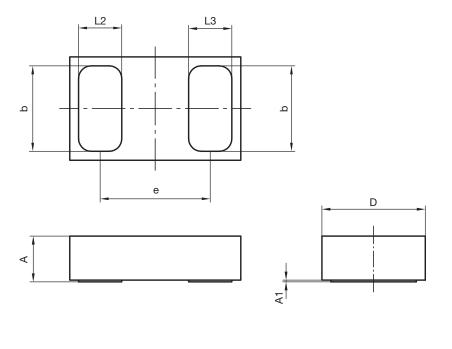
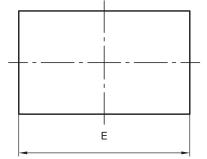


Fig. 4 - Typical Thermal Impedance vs. Time



PACKAGE DIMENSIONS in millimeters: CLP1006-2L





	min.	max.		
А	0.25	0.29		
A1		0.02		
b	0.48	0.53		
D	0.59	0.63		
Е	0.99	1.03		
е	0.65			
L2	0.23	0.28		
L3	0.23	0.28		

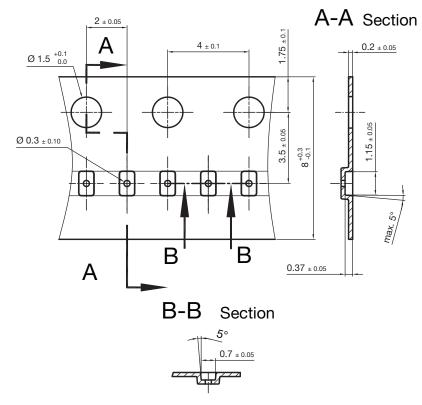
Document no.:S8-V-3906.04-039 (4) Created - Date: 02. April 2015 22784

Footprint and soldering recommendation:

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



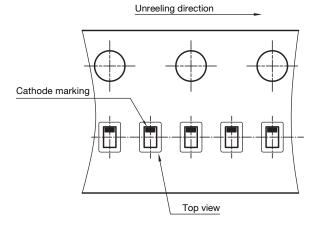
CARRIER TAPE in millimeters: CLP1006-2L



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

Carrier tape CLP1006-2L S8-V-3906.04-051 (4) 03.02.2016 22937

ORIENTATION IN CARRIER CLP1006-2L



Orientation in Carrier CLP1006-2L (VSKY) S8-V-3906.04-052 (4) 03.02.2016 22938



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