

HXXXH Series

SIDAC High Voltage Silicon Uni-directional Thyristors

SIDAC 0.3 AMPERE RMS 105~220 VOLTS

FEATURES

- •High pulse current capability
- •Glass passivation insure reliable operation
- •Maximum dynamic holding current 50mA.
- •Compact package, SOD-123 package

Application

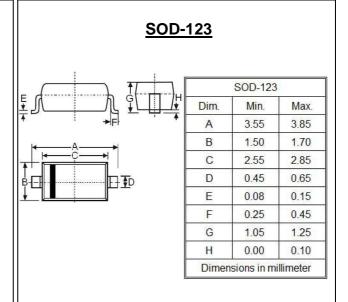
- Anion Generator
- Pulse generating

Mechanical Data

•Terminals: Lead Free Plating

Polarity: Color band denotes anode

• RoHS 2011/65/EU Compliant



MAXIMUM RATINGS (Tj=25 °C, unless otherwise specified)

Parameter	Test Condition		Symbol	Value	Unit	
Peak repetitive off-state voltage	TJ= -40 to 105°C,	H105H	VDRM	90	V	
Feak repetitive oil-state voltage	Sine Wave, 50 to 60 Hz	H220H	VDRIVI	180		
On-state RMS current	TL= 80 °C, All Conduction Angles	It(RMS)	0.3	Α		
Book Non Bonetitive Surge Current	Waveform: 10/1000us, Tj=25 °C,		1	14	А	
Peak Non-Repetitive Surge Current	refer Fig.4		I _{TSM}	14	A	
Operating junction temperature range			Tj	-40 ~ +105	°C	
Storage temperature range			Tstg	-40 ~ +125	°C	
Rev. 4, Sep-2016, ł			Sep-2016, KSX	(R01		



THERMAL CHARACTERISTICS

Characteristic	Symbol	Value	Unit
Thermal resistance – Junction to case	Rthjc	15	°C/W
Maximum lead Solder Temperature	T	260	°C
(Lead Length ≥ 1/16 " from Case, 10s Max)	I L	260	C

ELECTRICAL CHARACTERISTICS (Tj=25°C, unless otherwise specified)

Parameter	Test condition	Symbol	Min	Тур	Max	Unit
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OFF CHARACTERISTICS

Peak repetitive forward or Reverse Blocking Current			10		
(50 to 60 Hz)	IDRM	 	10	uA	

ON CHARACTERISTICS

Peak On-State Voltage	I _T =0.3A		V _{TM}		1.1	1.5	V
Break Over Voltage	Inc. FuA	H105H	V _{BO}	95		110	V
	IBO = 5uA	H220H		210		230	
Break Over Current	VBO =105V		I _{BO}		5		uA
Holding Current Switching Resistance			I _H			50	mA
			Rs	0.1			kΩ

MARKING INFORMATION



Note:

X= Part Number, A=H105H, C=H220H

Y= Year: 0~9

M= Month: 0~9, A, B, C



Electrical Characteristic of SIDAC

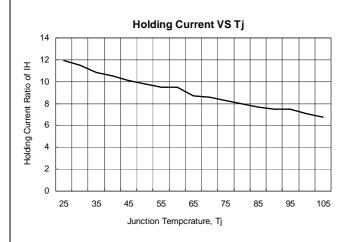


Fig.1

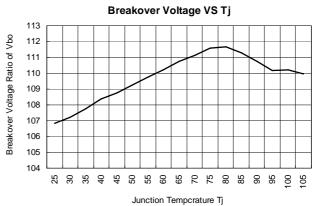


Fig.2

On state Voltage vs On state Current

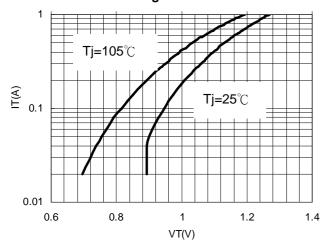


Fig.3

10/1000us Surge Waveform

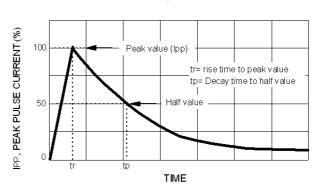


Fig.4



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