

Sidac High Voltage Sillicon Bidirectional Thyristors

SIDACS 0.6 AMPERES RMS 105 VOLTS

DO-219

FEATURES

- •High pulse current capability,typ=120A/us
- •Glass passivation insures reliable operation
- Compact package, DO-219 Package
- •Max. Dynamic Holding Current -100mA
- RoHS compliant

APPLICATION

- •High Pressure Sodium Vapor Lighting
- Strobes and Flashers
- •Ignitors
- •High Voltage Regulators
- Pulse Generators
- •Used to Trigger Gates of SCR's and Triacs

MECHANICAL DATA

•Case: JEDEC DO-219 molded plastic

Component in accordance to RoHs 2011/65/EU

MARKING INFORMATION YWW H105 NOTE: Y=Year

	COAN	ang sai				
DO-219						
DIM.	MIN.	. TYP MAX				
Α	3.50	3.80	3.90			
В	1.70	1.90	2.00			
С	0.81	1.18	1.20			
D	2.70	2.80	2.90			
E	0.80	1.00	1.35			
F	0.05	0.15	0.30			
G	0.35	0.60	0.85			
Н	0.03	0.07	0.10			
1	0°	5°	8°			
All dimension in millimeter.						

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

ABOUT INTIMOS						
PARAMETER		VALUE	UNIT			
Peak Repetitive Off-State Voltage (Tj=-40 to 125°C,Sine Wave,50 to 60Hz)	$V_{DRM} \ V_{RRM}$	±90	V			
On-State RMS Current(TL=80°C,Lead Lengh=3/8",All Conduction Angles)	I _{T(RMS)}	±0.6	А			
Peak Non-Repetitive Surge Current ,60Hz One Cycle Wave(Tj=125°C)	Ітѕм	±4.0	А			
Operating Junction Temperature Range	Tj	-40 to +125	°C			
Storage Temperature Range	T _{STG}	-40 to +150	°C			
	REV.0, DEC2017, F	(SXF01				

NOTES:

Maximum ratings are those values beyond which device damage can occur.

Maximum ratings applied to the device are individual stress limit values (not normal operating conditions) and are not valid simultaneously. If these limits are exceeded, device functional operation is not implied, damage may occur and reliability may be affected.

RATING AND CHARACTERISTIC CURVES H105E



THERMAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	VALUE	UNIT
Maximum Lead Solder Temperature	TL	260	°C

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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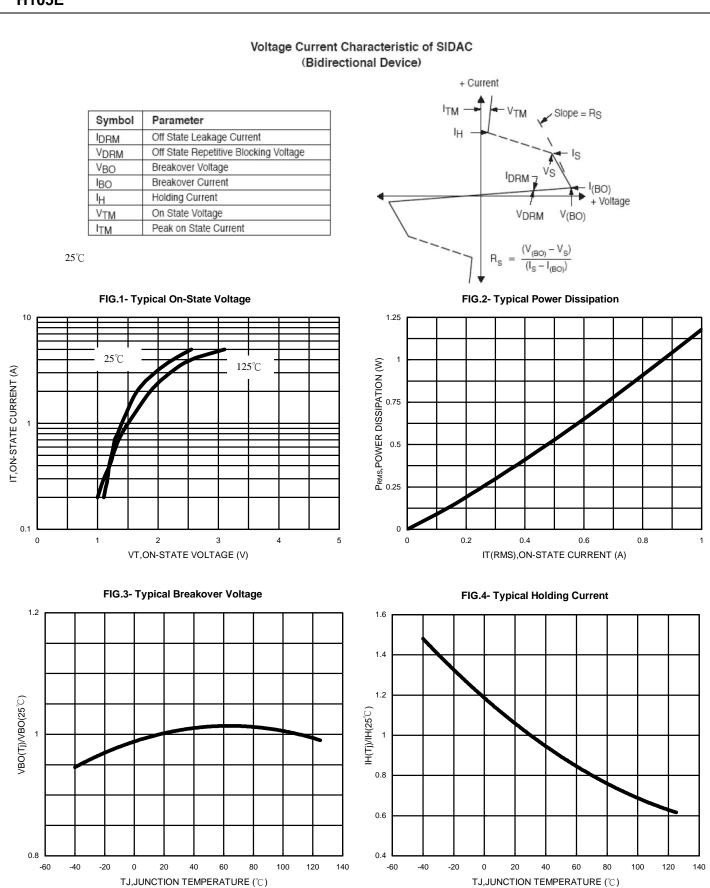
OFF CHARACTERISTIC		MIN	TYP	MAX	UNIT
Peak Reptitive Forward or Reverse Blocking Current	I _{DRM}			5	uA

ON CHARACTERISTIC		MIN	TYP	MAX	UNIT
Peak On-State Voltage (ITM=1A Peak @Tp \leq 300 us, Duty Cycle \leq 2%)	V_{TM}		1.3	1.5	V
Breakover Voltage IBO = 35uA	V _{BO}	95		110	V
Dynamic Holding Current (Sine Wave, 50 to 60 Hz, RL=100 Ohm)	I _H			100	mA
Switching Resistance (Sine Wave, 50 to 60 Hz)	Rs	0.1			kΩ

DYNAMIC CHARACTERISTIC	SYMBOL	MIN	TYP	MAX	UNIT
Critical Rate of Rise of On-State Current, Critical Damped Waveform Circuit (IPK = 130 A, Pulse Width = 10 us)	di/dt		120		A/us

RATING AND CHARACTERISTIC CURVES H105E







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