

SIDAC SILICON UNIDIRECTIONAL THYRISTORS

1 AMPERE 240 VOLTS

FEATURES

- V_{BO} range is from 230 to 250 Vdc
- V_{DRM} with stand 210V
- I_H is under 60 mA
- Compact package for spacing saving.

Application

• Gas Igniters

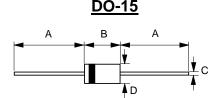
MECHANICAL DATA

• Case: JEDEC DO-15 molded plastic

• Terminals: Lead Free Plating

• Component in accordance to RoHs 2011/65/EU

• UL Recognition File # E219635



	DO-15			
Dim.	Min.	Max.		
Α	25.4	-		
В	5.80	7.60		
С	0.71 Ø	0.86 Ø		
D	2.60 Ø	3.60 Ø		
All Dimensions in millimeter				



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATING

PARMETER	TEST CONDITION		SYMBOL	VALUE	UNIT	
Peak repetitive off-state voltage	TJ= -40 to 125°C, sine wave, 50 to 60 Hz		V_{DRM}	210	٧	
On-state RMS current	TL= 80°C, all conduction angles		I _{T(RMS)}	1	Α	
Pulse on-state current	Ta=25°C, pulse width to = 10us, sine wave, repetitive peak value	f=5Hz	I _{TRM}	330	Α	
		f=60Hz		190	^	
Maximum lead solder temperature (Lead length \geq 1/16 " from case, 10s max)			TL	260	°C	
Operating junction temperature range		TJ	-40 ~ +125	°C		
Storage temperature range		T _{STG}	-40 ~ +150	°C		

THERMAL PERFORMANCE

PARMETER	SYMBOL	TYP.	UNIT
Typical thermal resistance junction to case	RthJ _C	15	°C/W

OFF CHARACTERISTICS

PARMETER		MAX	UNIT
Peak repetitive forward or reverse blocking current (50 to 60 Hz) V _{DRM} =210V	I_{DRM}	10	uA

ON CHARACTERISTICS

PARMETER	TEST CONDITION	SYMBOL	MIN	TYP.	MAX	UNIT
Peak on-state voltage	I _T = 1 A	V_{TM}		1.1	1.5	V
Breakover voltage	I _{BO} = 5 uA	V _{BO}	230	240	250	V
Breakover current		I _{BO}			200	uA
Holding current		I _H			60	mA
Switching resistance		Rs	0.1			kΩ

ON CHARACTERISTICS

PARMETER	SYMBOL	MIN	TYP.	MAX	UNIT
Critical rate of rise of on-state current	di/dt		220		A/uS
Note:	REV-1, JUN2017, KDXD08				

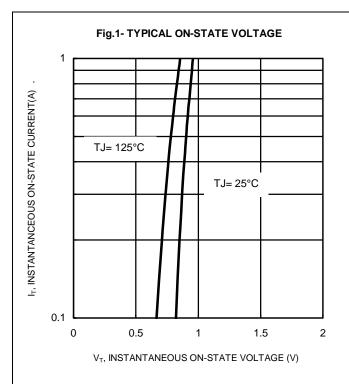
Maximum ratings are those values beyond which device damage can occur.

Maximum ratings applied to the device are individual stress limit values (not normal operating conditions) and are not valid simultaneously.

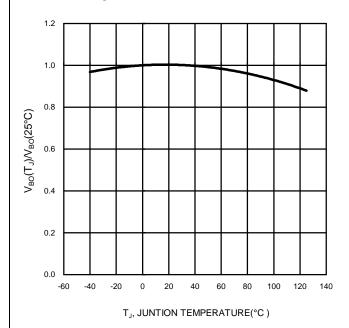
If these limits are exceeded, device functional operation is not implied, damage may occur and reliability may be affected.

RATING AND CHARACTERISTIC CURVES SD1A240G











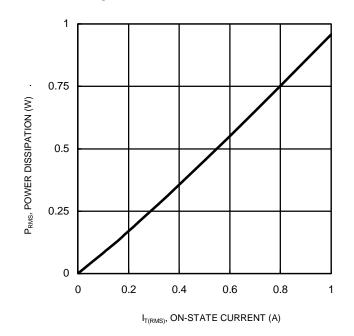
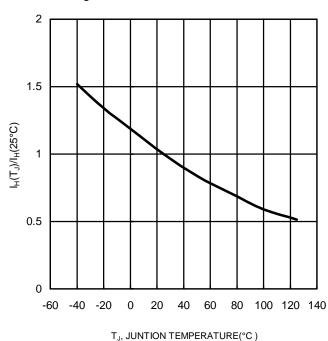


Fig.4- TYPICAL HOLDING CURRENT





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