

SIDAC High Voltage Silicon Bidirectional Thyristors

FEATURES

•VBO range is from 201 to 219 Vdc

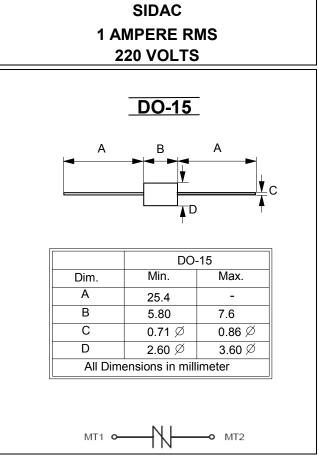
•VDRM & VRRM with stand +/- 180V.

•IH+/- is under 65mA.

•Compact package for spacing saving.

Application

- Gas Igniters
- HID Igniters
- Pulse generating



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

Parameter	Test Condition	Symbol	Value	Unit	
Peak repetitive off-state voltage	TJ= -40 to 125°C , Sine Wave, 50	VDRM	±180	V	
On-state RMS current	TL= 80 °C, All Conduction Angles	lt(RMS)	1	А	
Peak Non-Repetitive Surge Current	60 Hz One Cycle Sin wave (Tj=1	I _{TSM} 16		А	
Operating junction temperature range			Tj	-40 ~ +125	°C
Repetitive Peak On-state Current	Ta=25 ℃,	f=1KHz		17	^
	pulse width to 10µS, sine wave	f=60 Hz	ITRM	50	A
Storage temperature range			Tstg	-40 ~ +150	°C
			Rev. 2, Apr-2011, KDXD02		

Note:

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.

SD1A210GW

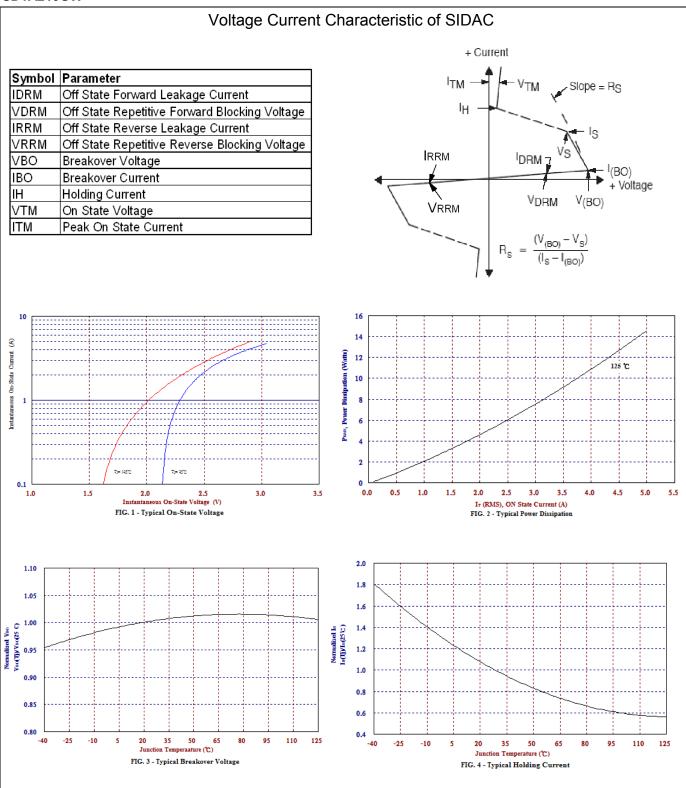
RATING AND CHARACTERISTIC CURVES SD1A210GW



Characteristic			Symb	ol	Value	Unit		
Thermal resistance – Junction to case			Rthj	с	15	°C/W		
Maximum lead Solder Temperature			-		260	°C		
(Lead Length \geq 1/16 " from Case, 10s Max)			TL		260	C		
	STICS (Tj=25°C, unless	s otherwise s	pecified)				
Parameter	Test condition	Symbol	Min	Тур	Max	Unit		
OFF CHARACTERISTICS								
Peak repetitive forward or Reverse Blocking Current		loou			10	uA		
(50 to 60 Hz)		I _{DRM}			10	uA		
ON CHARACTERISTICS Peak On-State Voltage	1 -10			2.3	3	V		
•	I _T =1A dv/dt = 4 V/ms	V _{TM}	201	2.3	219	v V		
Break Over Voltage dv/dt = 4 V/ms Break Over Current		V _{BO}	201		0.5	mA		
Holding Current		I _{BO}	25		65	mA		
Switching Resistance		Rs	0.1			kΩ		
DYNAMIC CHARACTERIST	_	di/dt		80		A/μs		
ORDERING INFORMATION	N	IARKING IN	NFORM	IATIO	N			
<u>SD 1A 210 GW</u>		LT YXWW						
$\downarrow \downarrow \downarrow \downarrow$		SD1A210G	W					
SIDAC Current: Voltage: Packag 1A=1A 210=210V DO-1	-							
	NOTEXX	DTE:Y= Year, WW= Week						

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LITEON





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