

**SIDAC HIGH VOLTAGE
SILLICON UNIDIRECTIONAL THYSISTORS**

**1 AMPERE
200 VOLTS**

FEATURES

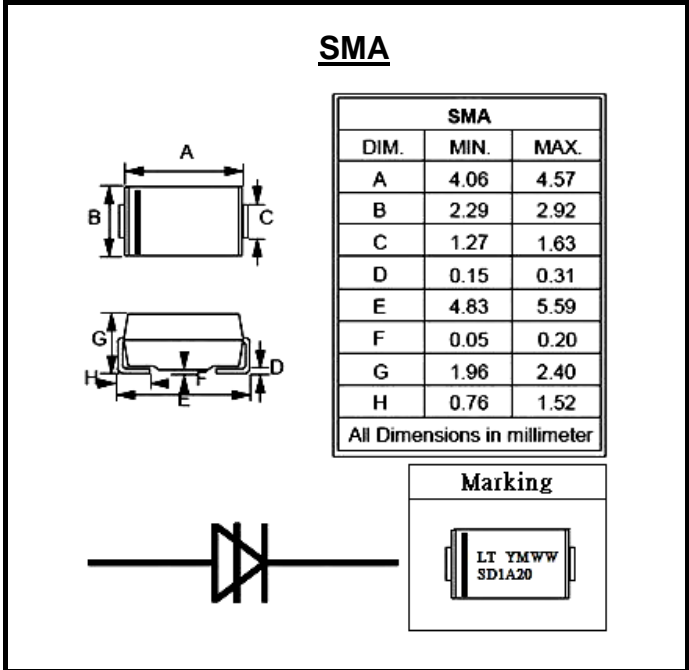
- V_{BO} range is from 190 to 210 Vdc
- V_{DRM} with stand 170V
- I_H is under 60 mA
- Compact package for spacing saving.

Application

- Gas Igniters

MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic
- Terminals: Lead Free Plating
- Component in accordance to RoHs 2011/65/EU
- UL Recognition File # E219635



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATING

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Peak repetitive off-state voltage	T _J = -40 to 125°C, sine wave, 50 to 60 Hz	V_{DRM}	170	V
On-state RMS current	T _L = 80°C, all conduction angles	$I_{T(RMS)}$	1	A
Pulse on-state current	T _a =25°C, pulse width to = 10us, sine wave, repetitive peak value	f=5Hz	280	A
		f=60Hz	120	
Maximum lead solder temperature (Lead length \geq 1/16" from case, 10s max)		T _L	260	°C
Operating junction temperature range		T _J	-40 ~ +125	°C
Storage temperature range		T _{STG}	-40 ~ +150	°C

THERMAL PERFORMANCE

PARAMETER	SYMBOL	TYP.	UNIT
Typical thermal resistance junction to case	R _{thJC}	15	°C/W

OFF CHARACTERISTICS

PARAMETER	SYMBOL	MAX	UNIT
Peak repetitive forward or reverse blocking current (50 to 60 Hz) $V_{DRM}=170V$	I_{DRM}	10	uA

ON CHARACTERISTICS

PARAMETER	TEST CONDITION	SYMBOL	MIN	TYP.	MAX	UNIT
Peak on-state voltage	I _T = 1 A	V_{TM}	--	1.1	1.5	V
Break over voltage	I _{BO} = 5 uA	V_{BO}	190	200	210	V
Break over current		I _{BO}	--	--	200	uA
Holding current		I _H	--	--	60	mA
Switching resistance		R _s	0.1	--	--	kΩ

ON CHARACTERISTICS

PARAMETER	SYMBOL	MIN	TYP.	MAX	UNIT
Critical rate of rise of on-state current	di/dt	--	80	--	A/uS

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.

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RATING AND CHARACTERISTIC CURVES SD1A200A

Fig.1- TYPICAL FORWARD VOLTAGE

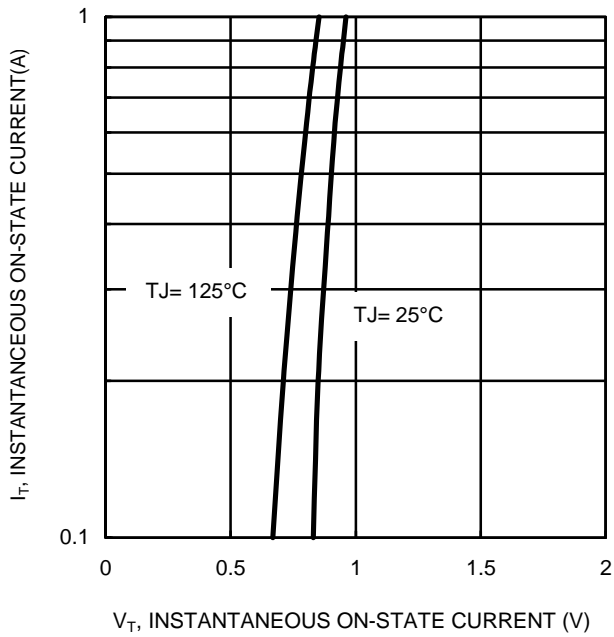


Fig.2- TYPICAL POWER DISSIPATION

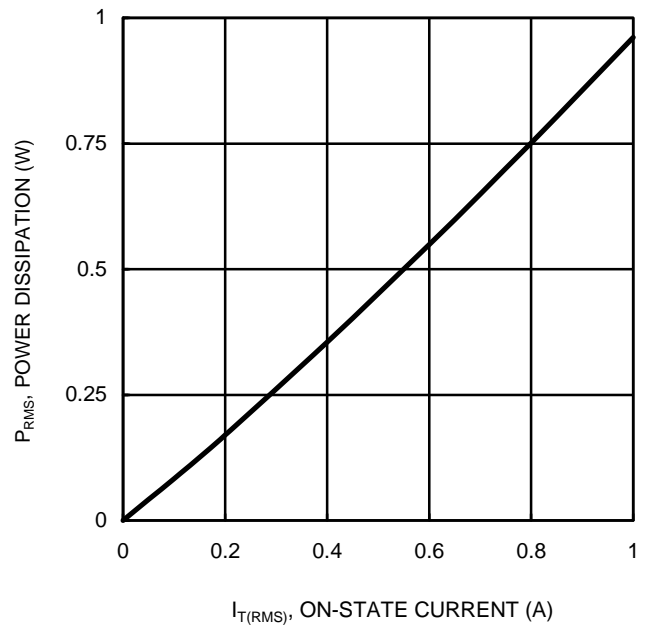


FIG.3- TYPICAL BREAKOVER VOLTAGE

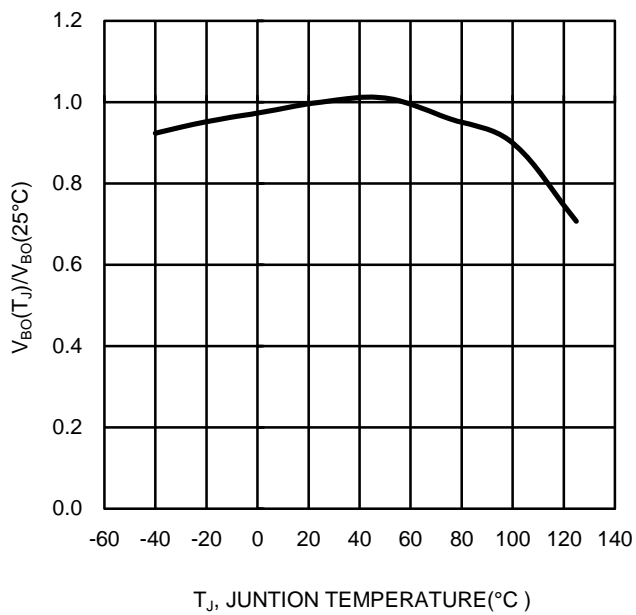
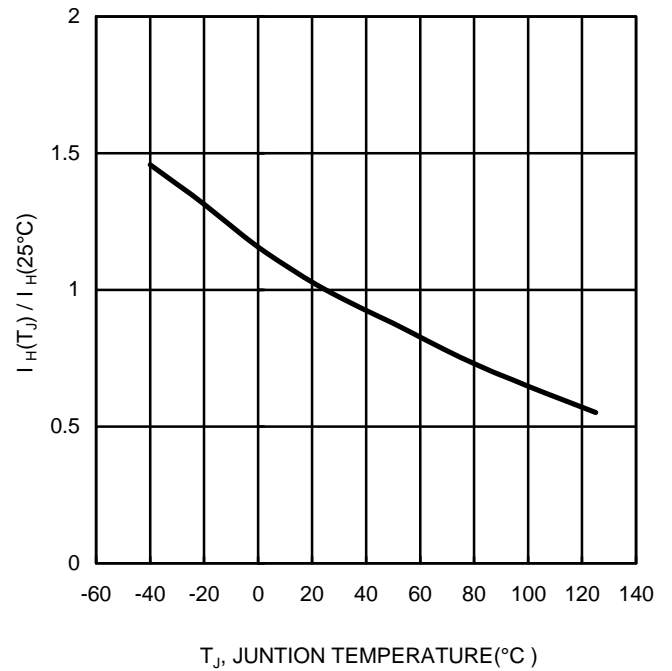


Fig.4- TYPICAL HOLDING CURRENT



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