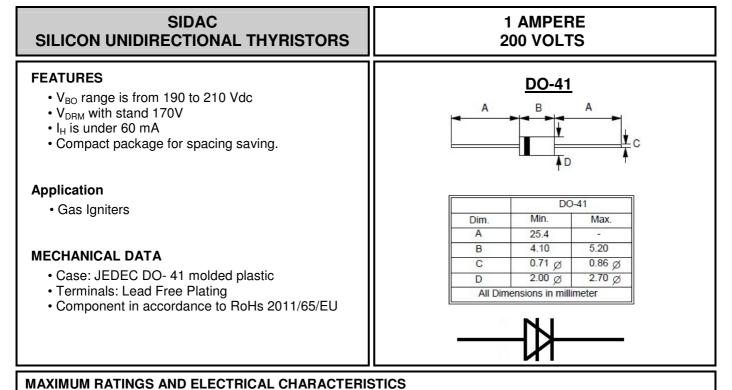
LITEON SEMICONDUCTOR

SD1A200E



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℃, sine wave, 50 to 60 Hz		V _{DRM}	170			V		
On-state RMS current	TL= 80°C, all conduction angles		I _{T(RMS)}	1			А		
Pulse on-state current	Ta=25℃, pulse width to = 10us, sine wave, repetitive peak value	f=5Hz	- I _{TRM}	330			A		
		f=60Hz		190					
Maximum lead solder temperature (Lead length $\ge 1/16$ " from case, 10s max)			ΤL	260			°C		
Operating junction temperature range			TJ	-40 ~ +125			°C		
Storage temperature range			T _{STG}	-40 ~ +150			°C		
THERMAL PERFORMANC	E								
	PARMETER	SYMBOL	TYP.			UNIT			
Typical thermal resistance junction to case			RthJ _c	15			°C/W		
OFF CHARACTERISTICS									
PARMETER			SYMBOL	МАХ			UNIT		
Peak repetitive forward or reverse blocking current (50 to 60 Hz) $V_{\text{DRM}}\text{=}170\text{V}$			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}	190	200	210	V		
Breakover current		I _{BO}			200	uA			
Holding current		Ι _Η			60	mA			
Switching resistance			Rs	0.1			kΩ		
ON CHARACTERISTICS					•		•		

PARMETER		MIN	TYP.	МАХ	UNIT
Critical rate of rise of on-state current			80		A/uS
te : REV- 0, JAN2016, KDXD			16, KDXD1	4	

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.

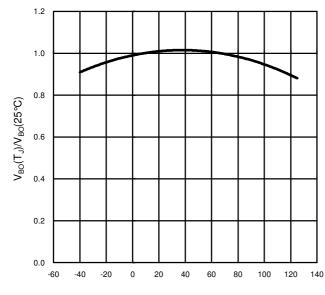
RATING AND CHARACTERISTIC CURVES SD1A200E



Fig.1- TYPICAL ON-STATE VOLTAGE

. Instantaneous on-state voltage (v)

Fig.3- TYPICAL BREAKOVER VOLTAGE



 $\mathsf{T}_\mathsf{J},\mathsf{JUNTION}\;\mathsf{TEMPERATURE}(\,^{\mathbf{C}}\,)$

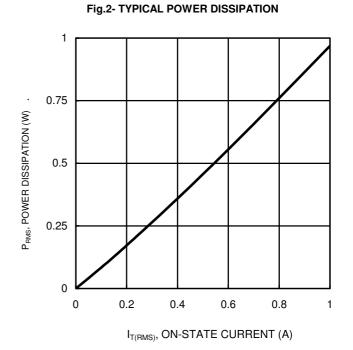
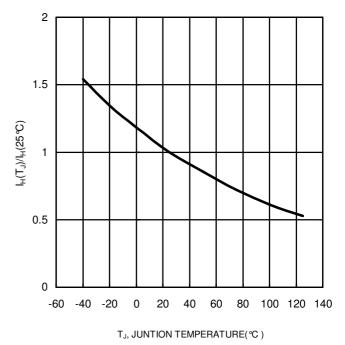


Fig.4- TYPICAL HOLDING CURRENT





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