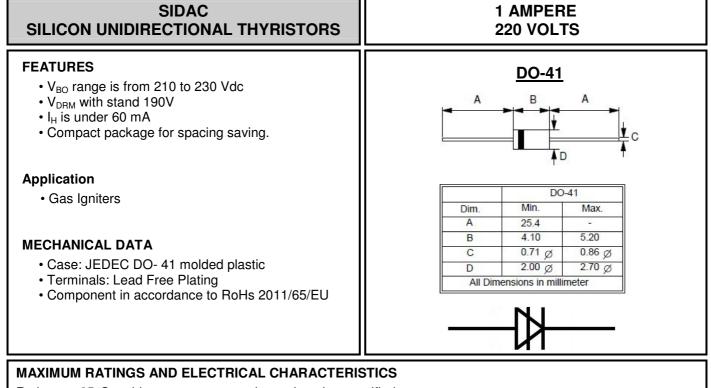
LITE SEMICONDUCTOR

SD1A220E



Ratings at 25 °C ambient temperature unless otherwise specified.

ABSOLUTE BATING

PARMETER	TEST CONDITION		SYMBOL	VALUE		UNIT	
Peak repetitive off-state voltage	TJ= -40 to 125℃, sine wave, 50 to 60 Hz		V _{DRM}	190		V	
On-state RMS current	TL= 80°C, all conduction angles		I _{T(RMS)}	1		Α	
	Ta=25 $^{\circ}$ C, pulse width to = 10us, f=5Hz			330			
Pulse on-state current	sine wave, repetitive peak value f=60Hz		I _{TRM}	190			A
Maximum lead solder temperature (Lead length $\ge 1/16$ " from case, 10s max)			TL	260			°C
Operating junction temperature range			TJ	-40 ~ +125			°C
Storage temperature range			T _{STG}	-40 ~ +150			°C
THERMAL 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) $V_{\text{DRM}}\text{=}190V$			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}	210	220	230	V
Breakover current		I _{BO}			200	uA	
Holding current		I _H			60	mA	
Switching resistance			Rs	0.1			kΩ
			•		•	•	•
ON CHARACTERISTICS							
ON CHARACTERISTICS	PARMETER		SYMBOL	MIN	TYP.	MAX	UNIT

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.

Note :

REV-0 JAN.-2016, KDXD15

RATING AND CHARACTERISTIC CURVES SD1A220E



Fig.2-



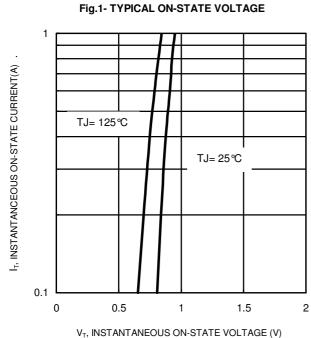
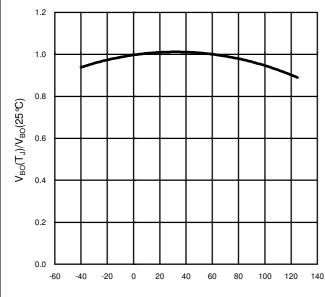


Fig.3- TYPICAL BREAKOVER VOLTAGE



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

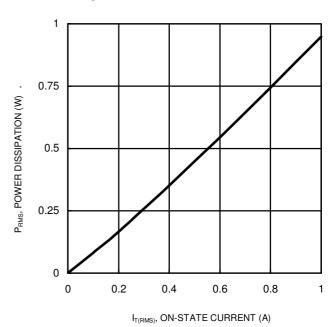
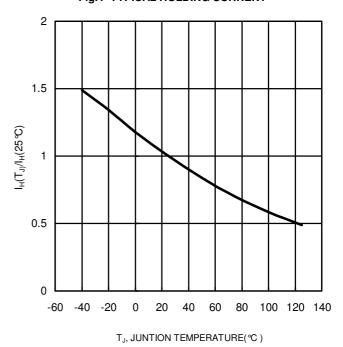


Fig.4- TYPICAL HOLDING CURRENT





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