LITE ON SEMICONDUCTOR

SD1A240GW



MAXIMUM RATINGS (Tj= 25°C unless otherwise noticed)

Rating		I Value	Unit	
Peak Repetitive Off– State Voltage (TJ= -40 to $125{\rm °C}$, Sine Wave, 50 to 60 Hz)	Vdrm	± 180	Volts	
On-State RMS Current (TL = 80° , Lead Lengh=3/8", All Conduction Angles)	It(RMS)	± 1	Amp	
Peak Non-Repetitive Surge Current 60 Hz One Cycle Sine Wave (Tj = 125℃)	Ітѕм	± 20	Amps	
Operating Junction Temperature Range	TJ	-40 to +125	°C	
Repetitive Peak On-state Currentf= 1K HzTa=25, pulse width to=10us, sine wave, repetitivepeak valuef= 60 Hz	ITRM	17 50	Amp.	
Storage Temperature Range	Tstg	-40 to +150	°C	
Note:	R	REV. 5, Jan-2011, KDXD01		

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.

Characteristic	Symbol	Value	Unit
Thermal Resistance - Junction to Lead, Lead Length = 3/8 "	RthJL	18	°C /W
Maximum Lead Solder Temperature (Lead Length≧ 1/16 " from Case, 10s Max)	ΤL	260	°C

ELECTRICAL CHARACTERISTICS (Tj=25°C unless otherwise noted)

Characteristics	Symbol	Min	Тур	Мах	Unit
OFF CHARACTERISTICS					
Peak Reptitive Forward or Reverse Blocking Current (50 to 60 Hz Sine Wave)	Idrm			5	uA
ON CHARACTERISTICS			-		
Peak On-State Voltage (ITM=1A Peak @Tp \leq 300 us, Duty Cycle \leq 2%)	Vтм			3	Volts
Breakover Voltage IBO= 0.5 mA	Vво	216		234	Volts
Breakover Current	Іво			0.5	mA
Dynamic Holding Current (Sine Wave, 50 to 60 Hz, RL=100 Ohm)	Ін		25	65	mA
Switching Resistance (Sine Wave, 50 to 60 Hz)	Rs	0.1			kΩ

Critical Rate of Rise of On-State Current di/dt --- 80 --- A/us

ORDERING INFORMATION



MARKING INFORMATION

LT YXWW SD1AXXXGW

NOTE: XXX = Voltage, Y =Year, Z = Week

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