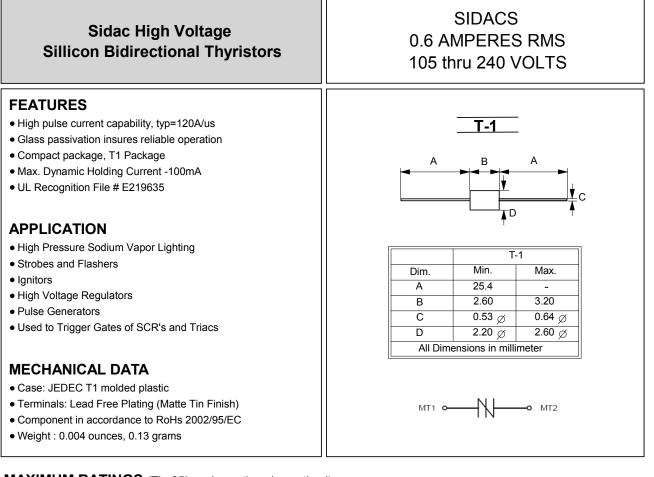
LITE ON SEMICONDUCTOR

H-D SERIES



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

Rating		Value	Unit
Peak Repetitive Off– State Voltage (TJ= -40 to 125°C, Sine Wave, 50 to 60 Hz) H105D, H120D, H160D H220D, H240D	Vdrm, Vrrm	± 90 ± 180	Volts
On-State RMS Current (T∟ = 80℃, Lead Lengh=3/8", All Conduction Angles)	It(RMS)	± 0.6	Amp
Peak Non-Repetitive Surge Current 60 Hz One Cycle Sine Wave (Tj = 125℃)	Ітѕм	± 4.0	Amps
Operating Junction Temperature Range	TJ	-40 to +125	°C
Storage Temperature Range	Tstg	-40 to +150	°C
Note:	RE	/. 3, Apr-2011, KI	DXA02

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.

THERMAL CHARACTERISTICS						
Characteristic	Symbol	Value	Unit			
Thermal Resistance - Junction to Lead, Lead Length = 3/8 "	RthJL	40	°C /W			
Maximum Lead Solder Temperature (Lead Length \geq 1/16 " from Case, 10s Max)	ΤL	260	°C			

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

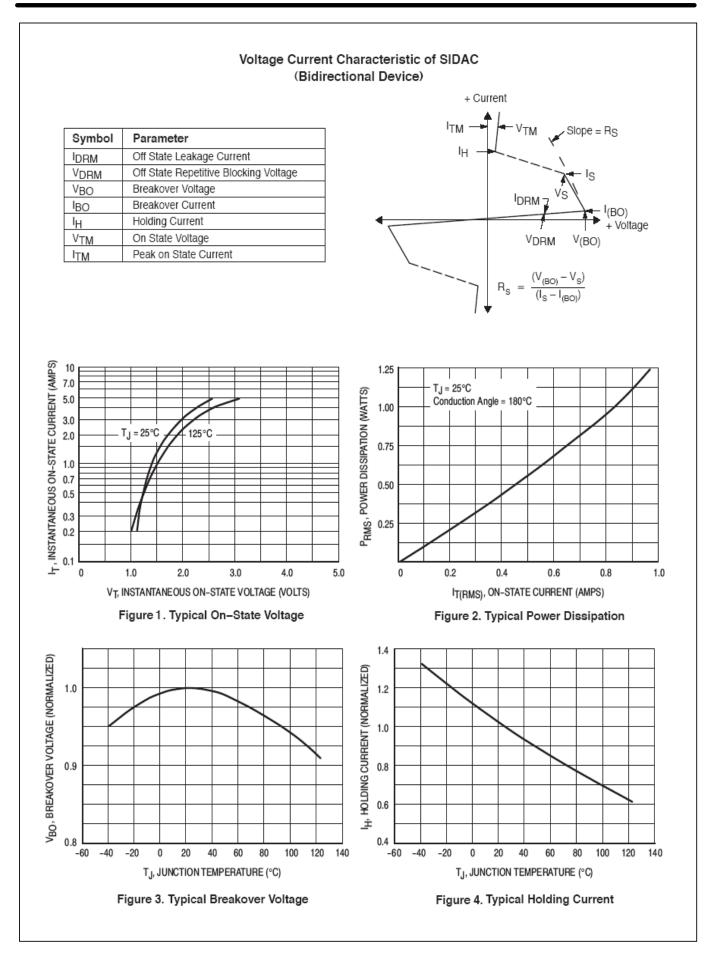
Characteristics	Symbol	Min	Тур	Max	Unit
OFF CHARACTERISTICS			•		
Peak Reptitive Forward or Reverse Blocking Current (50 to 60 Hz Sine Wave) VDRM=90V, H105D, H120D, H160D VDRM=180V, H220D, H240D	İdrm			5	uA
ON CHARACTERISTICS	·				
Peak On-State Voltage (ITM=1A Peak @Tp \leq 300 us, Duty Cycle \leq 2%)	Vтм		1.3	1.5	Volts
Breakover Voltage IBO = 35uA H105D 35uA H120D 35uA H160D 35uA H220D 35uA H240D	Vво	95 110 150 210 220	 	110 130 170 230 250	Volts
Dynamic Holding Current (Sine Wave, 50 to 60 Hz, RL=100 Ohm)	Ін			100	mA
Switching Resistance (Sine Wave, 50 to 60 Hz)	Rs	0.1			kΩ

DYNAMIC CHARACTERISTICS

Critical Rate of Rise of On-State Current,			
Critical Damped Waveform Circuit	di/dt	 120	 A/us
(IPK = 130 A, Pulse Width = 10 us)			

RATING AND CHARACTERISTIC CURVES H-D SERIES

LITE ON





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