

Absolute Maximum Ratings @25°C

Parameter	Ratings	Units
Blocking Voltage	250	V _P
Reverse Input Voltage	5	V
Input Control Current	50	mA
Peak (10ms)	1	Α
Input Power Dissipation ¹	150	mW
Total Power Dissipation ²	800	mW
Isolation Voltage, Input to Output	3750	V_{rms}
Operational Temperature	-40 to +85	°C
Storage Temperature	-40 to +125	°C

Absolute Maximum Ratings are stress ratings. Stresses in excess of these ratings can cause permanent damage to the device. Functional operation of the device at conditions beyond those indicated in the operational sections of this data sheet is not implied.

Electrical Characteristics @25°C (Unless Otherwise Noted)

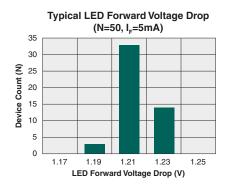
Parameter	Conditions	Symbol	Min	Тур	Max	Units
Output Characteristics	'	'				
Load Current						
Continuous	-	IL	-	-	170	mA_{rms} / mA_{DC}
Peak	t =10ms	I _{LPK}	-	-	±400	mA _P
On-Resistance	I _L =170mA	R _{ON}	-	10	15	Ω
Off-State Leakage Current	$V_L = 250V_P$	I _{LEAK}	-	-	1	μΑ
Switching Speeds						
Turn-On	I 5m / 1 / 10 /	t _{on}	-	-	5	ma
Turn-Off	I _F =5mA, V _L =10V	t _{off}	-	-	5	ms
Output Capacitance	V _L =50V, f=1MHz	C _{OUT}	-	50	-	pF
Input Characteristics						
Input Control Current to Activate	I _L =170mA	I _F	-	-	5	mA
Input Control Current to Deactivate	-	-	0.4	0.7	-	mA
Input Voltage Drop	I _F =5mA	V _F	0.9	1.2	1.4	V
Reverse Input Current	V _R =5V	I _R	-	-	10	μΑ
Input to Output Capacitance	-	C _{I/O}	-	3	-	pF

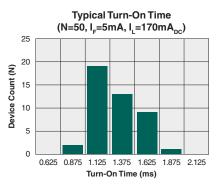
¹ Derate linearly 1.33 mW / °C

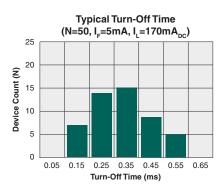
² Derate linearly 6.67 mW / °C

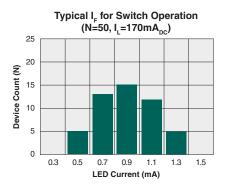


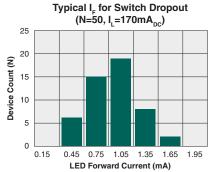
PERFORMANCE DATA @25°C (Unless Otherwise Noted)*

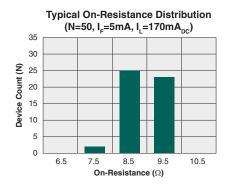


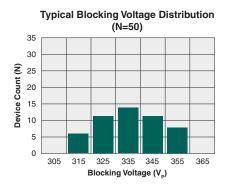


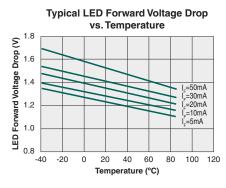


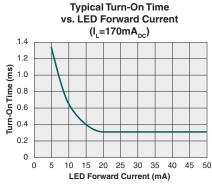


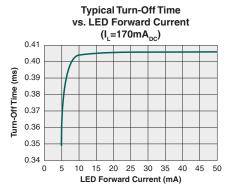








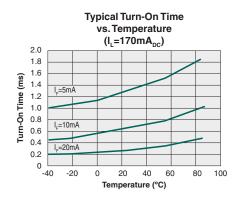


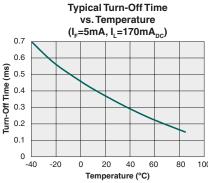


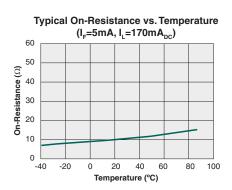
^{*}The Performance data shown in the graphs above is typical of device performance. For guaranteed parameters not indicated in the written specifications, please contact our application department.

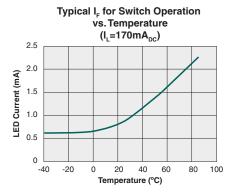


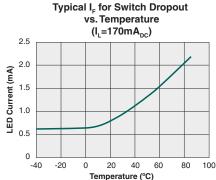
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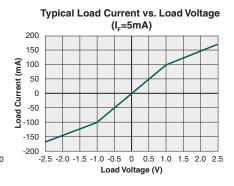


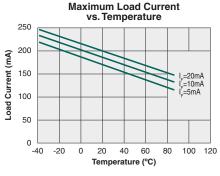


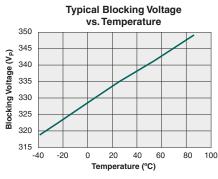


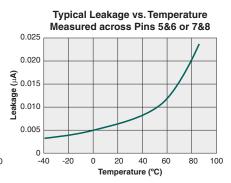


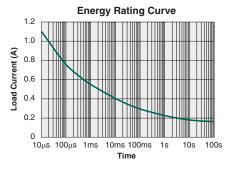












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Manufacturing Information

Moisture Sensitivity

All plastic encapsulated semiconductor packages are susceptible to moisture ingression. IXYS Integrated Circuits Division classified all of its plastic encapsulated devices for moisture sensitivity according to the latest version of the joint industry standard, **IPC/JEDEC J-STD-020**, in force at the time of product evaluation. We test all of our products to the maximum conditions set forth in the standard, and guarantee proper operation of our devices when handled according to the limitations and information in that standard as well as to any limitations set forth in the information or standards referenced below.

Failure to adhere to the warnings or limitations as established by the listed specifications could result in reduced product performance, reduction of operable life, and/or reduction of overall reliability.

This product carries a **Moisture Sensitivity Level (MSL) rating** as shown below, and should be handled according to the requirements of the latest version of the joint industry standard **IPC/JEDEC J-STD-033**.

Device	Moisture Sensitivity Level (MSL) Rating
LAA126 / LAA126S	MSL 1

ESD Sensitivity



This product is ESD Sensitive, and should be handled according to the industry standard JESD-625.

Reflow Profile

This product has a maximum body temperature and time rating as shown below. All other guidelines of **J-STD-020** must be observed.

Device	Maximum Temperature x Time
LAA126 / LAA126S	250°C for 30 seconds

Board Wash

IXYS Integrated Circuits Division recommends the use of no-clean flux formulations. However, board washing to remove flux residue is acceptable. Since IXYS Integrated Circuits Division employs the use of silicone coating as an optical waveguide in many of its optically isolated products, the use of a short drying bake could be necessary if a wash is used after solder reflow processes. Chlorine- or Fluorine-based solvents or fluxes should not be used. Cleaning methods that employ ultrasonic energy should not be used.



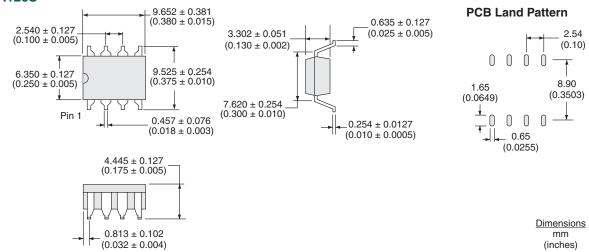




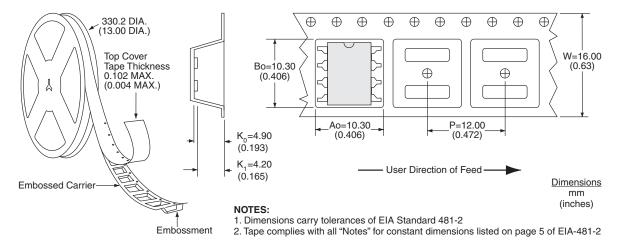


MECHANICAL DIMENSIONS

LAA126S



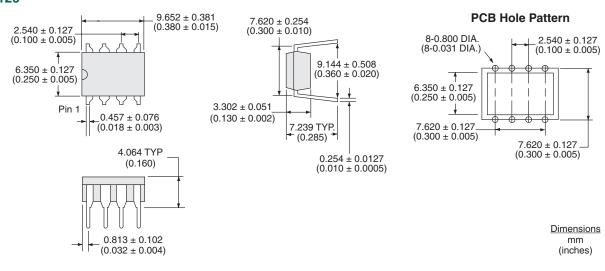
LAA126STR Tape & Reel





MECHANICAL DIMENSIONS

LAA126



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