

Absolute Maximum Ratings (@ 25°C)

Parameter	Ratings	Units	
Blocking Voltage	350	V _P	
Reverse Input Voltage	5	V	
Input control Current	50	mA	
Peak (10ms)	1	Α	
Input Power Dissipation	70	mW	
Total Power Dissipation 1	400	mW	
Isolation voltage, Input to Output	1500	V _{rms}	
Operational Temperature	-40 to +85	°C	
Storage Temperature	-40 to +125	°C	

¹ Derate Linearly 3.33 mw / °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.

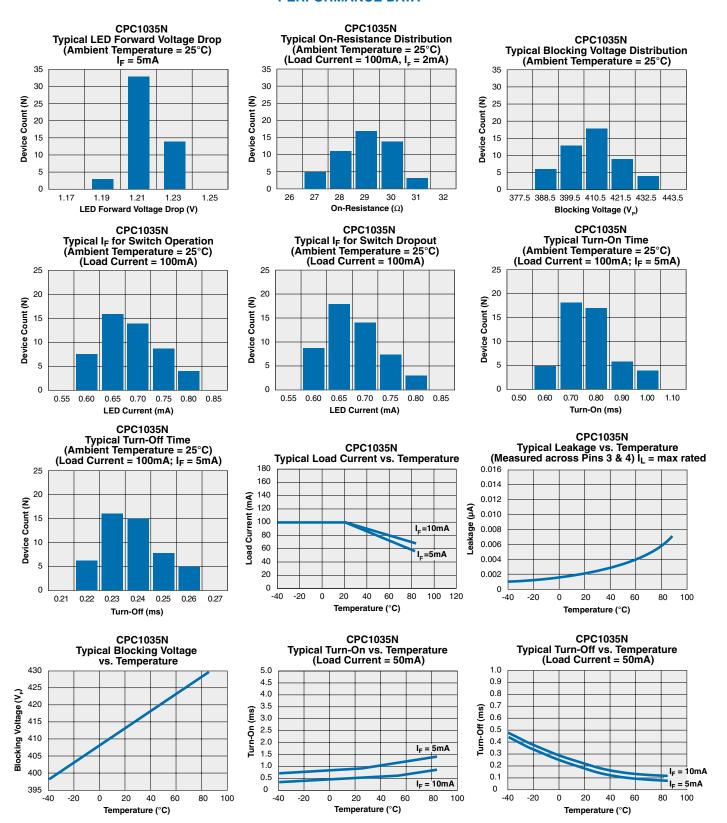
Electrical Characteristics

Parameter	Conditions	Symbol	Min	Тур	Max	Units
Output Characteristics @ 25°C					·	
Load Current						
Continuous ¹	-	I _L	-	-	100	mA mA
Peak	t=10ms	I _{LPK}	-	-	350	
On-Resistance ²	I _L =100mA	R _{on}	-	30	35	Ω
Off-State Leakage Current	V _L =350V	I _{LEAK}	-	-	1	μΑ
Switching Speeds	_					
Turn-On	I _F =5mA, V _L =10V	T _{ON}	-	-	2	
Turn-Off		T _{OFF}	-	-	1	ms
Output Capacitance	50V; f=1MHz	C _{OUT}	-	25	-	pF
Input Characteristics @ 25°C						
Input Control Current ³	I _L =100mA	I _F	-	-	2	mA
Input Dropout Current	-	I _F	0.3	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 Characteristics @ 25°C						
Capacitance Input to Output	-	-	-	1	-	pF

Load current derates linearly from 100mA @ 25°C to 70mA @ 85°C.
Measurement taken within 1 second of on time.
For applications requiring high temperature operation (greater than 60°C) an LED drive current of 10mA is recommended.



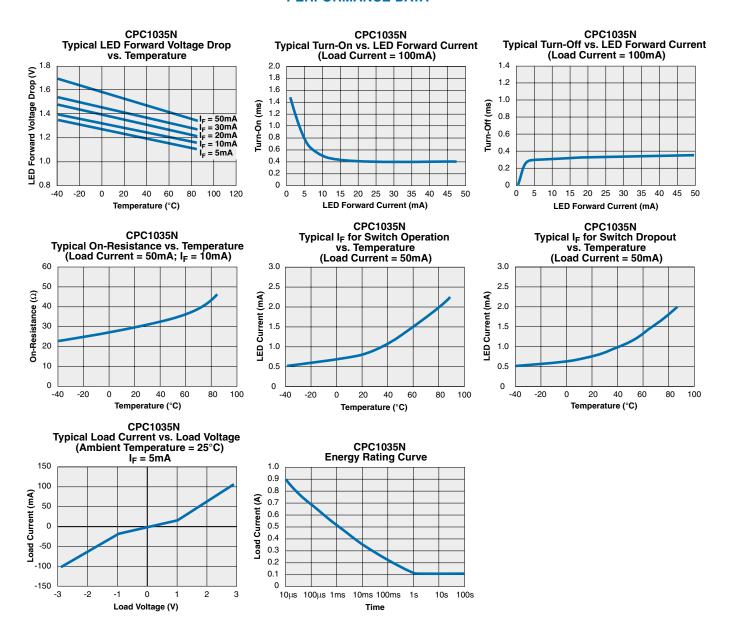
PERFORMANCE DATA*



^{*}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.



PERFORMANCE DATA*



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MANUFACTURING INFORMATION

Moisture Sensitivity

Clare has characterized the moisture reflow sensitivity of this package, and has determined that this component must be handled in accordance with IPC/JEDEC standard J-STD-033 moisture sensitivity level (MSL), level 3 classification.







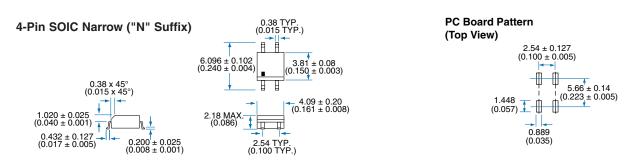
Soldering Reflow Profile

For proper assembly, the component must be processed in accordance with the current revision of IPC/JEDEC standard J-STD-020. Failure to follow the recommended guidelines may cause permanent damage to the device resulting in impaired performance and/or a reduced lifetime expectancy.

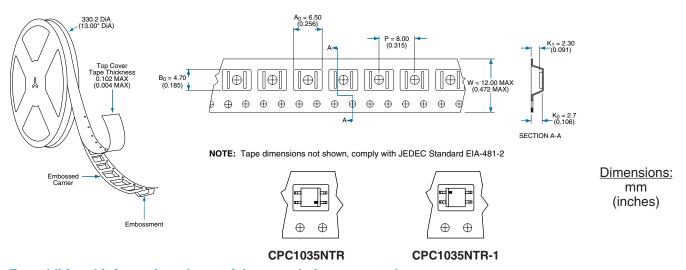
Washing

Clare does not recommend ultrasonic cleaning or the use of chlorinated solvents.

MECHANICAL DIMENSIONS



Tape and Reel Packaging for 4-pin SOP package



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