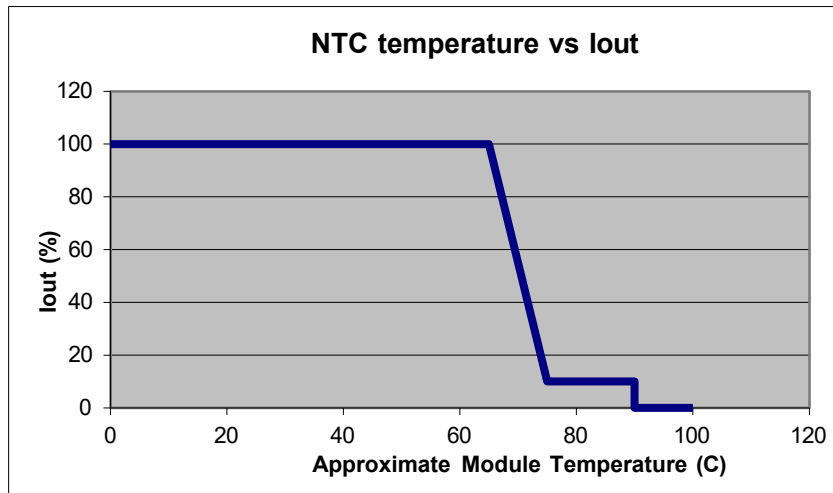


Universal Douglas Driver Application Note: Thermal Foldback Control

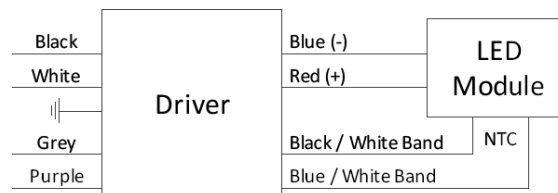
The following Application Note is applicable to Universal Douglas LED drivers that incorporate thermal foldback control with leads available for connection to a Negative Thermal Coefficient (NTC) device.

The driver and NTC function together so that when the NTC begins to exceed specific temperatures the output current of the driver is reduced to prevent damage to either the LED modules or the LED driver depending on where the components are located. The chart below shows how the temperature affects the output current with the Murata NTC part number NCP18XV103J03RB. When this NTC's temperature exceeds approximately 65°C, the output current is reduced (folds back). If the temperature continues to rise, the current is reduced further.



(Example with the Murata NTC p/n NCP18XV103J03RB)

Universal Douglas LED Drivers that incorporate this feature have two extra leads to connect to the NTC: Black/White Band and Blue/White Band are the lead colors. These leads must be individually capped off for applications where the NTC function is not utilized.



Unused Black/White and Blue/White leads must be individually capped off