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The TPS65150 device offers a very compact and small power supply solution that provides all three voltages required by thin film transistor (TFT) LCD displays. With an input voltage range of 1.8V to 6V the device is ideal for notebooks powered by a 2.5-V or 3.3-V input rail or monitor applications with a 5-V input voltage rail. Additionally the TPS65150 device provides an integrated high current buffer to provide the VCOM voltage for the TFT backplane.

Two regulated adjustable charge pump driver provide the positive V(VGH) and negative V(VGL) bias voltages for the TFT. The device incorporates adjustable power-on sequencing for V(VGL) as well as for V(VGH). This avoids any additional external components to implement application specific sequencing. The device has an integrated high-voltage switch to isolate V(VGH).

The same internal circuit can also be used to provide a gate shaping signal of V(VGH) for the LCD panel controlled by the signal applied to the CTRL input. For highest safety, the TPS65150 device has an integrated adjustable shutdown latch feature, which allows application-specific flexibility. The device monitors the outputs (V(VS), V(VGL), V(VGH)); and, as soon as one of the outputs falls below its power good threshold, the device enters shutdown latch, after its adjustable delay time has passed by.

u60A8u53EFu4EE5u6839u636Eu5668u4EF6u6570u91CFu9009u62E9u4E0Du540Cu7684u5305u88C5u65B9u5F0FuFF0Cu5305u62ECu5B8Cu6574u5377u5E26u3001u5B9Au5236u5377u5E26u3001u526Au5207u5E26u3001u7BA1u88C5u6216u6258u76D8u3002

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u82F1u5BF8u7684u5F15u5E26u548Cu5C3Eu5E26uFF0Cu4EE5u76F4u63A5u9001u5165u81EAu52A8u7EC4u88C5u673Au3002u6D89u53CAu5B9Au5236u5377u5E26u7684 TI
u8BA2u5355u5C06u5305u542Bu5377u5E26u8D39u7528u3002

u526Au5207u5E26u662Fu4ECEu6574u76D8u5377u5E26u4E0Au526Au4E0Bu6765u7684u7279u5B9Au957Fu5EA6u7684u7F16u5E26u3002u6839u636Eu6240u7533u8BF7u5668u4EF6u6570u91CFu7684u4E0Du540CuFF0CTI
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u901Au5E38u4F1Au6839u636Eu5E93u5B58u60C5u51B5u9009u62E9u5C06u7BA1u88C5u6216u6258u76D8u5668u4EF6u4EE5u76D2u88C5u6216u8005u7BA1u88C5u6216u6258u76D8u5F62u5F0Fu53D1u8D27u3002u6240u6709u5668u4EF6u5747u4F1Au6309u7167 TI
u5185u90E8u89C4u5B9Au7684u9759u7535u653Eu7535u548Cu6E7Fu654Fu7B49u7EA7u4FDDu62A4u8981u6C42u8FDBu884Cu5305u88C5u3002

u60A8u53EFu5728u8D2Du7269u8F66u4E2Du6DFBu52A0u5668u4EF6u6570u91CFu4EE5u5F00u59CBu7ED3u7B97u6D41u7A0BuFF0Cu5E76u67E5u770Bu73B0u6709u5E93u5B58u4E2Du53EFu9009u62E9u6279u6B21u6216u751Fu4EA7u65E5u671Fu4EE3u7801u7684u9009u9879u3002

Vol 1.6 MHzPWMDC/DC,LCD?DC/DC?TPS65105 2.3A.,LCD2/3?,LCD?1.6 MHz?220 nF
?LCDVCOM,3.3 V?,?,?,???

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