

STM32MP13xD/F with STPMIC1LD

MB2503A Power Tree

Revision history

Date	Signum	Version	Changes
15-Oct-2025	CBE	1	Initial release

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Discovery board
power source
5 V / 3 A

STM32MP13xD/F with STPMIC1LD

MB2503A Discovery board Power Tree

(STPMIC1LD perimeter: MPU with CPU freq up to 1000 MHz)

STEF05SGR:

- Over voltage protection (5.7 V Vout against up to 25 V VBUS overvoltage)
- Overcurrent and short circuit protection (3.2 A overload ; 1.1 A short circuit)
- Inrush current limiter (adjustable soft-start : 13 ms)

390 pF => ~ 13 ms rise time
To be adjusted according to total capacitance (Ceq) on 5V_VIN node to limit inrush current below 500 mA on VBUS

