

NCP1075







SMPS

NCP1072/NCP1075 700 V MOSFET PDIP-7/SOT-223 NCP1072/5 NCP1072/565/100/130 kHz AC DSS 50 mW

- Integrated 700 V MOSFET with RDS(on) of 11 Ω
- Current-Mode Fixed Frequency Operation (65/100/130 kHz)
- Peak Current: NCP1072 = 250mA / NCP1075 = 450 mA
- Skip-Cycle Operation at Low Peak Current
- Dynamic Self-Supply (DSS)
- Auto-Recovery Output Short Circuit Protection with Timer-Based Detection
- Frequency Foldback Operation
- 300 μ A No Load Power Consumption
- Frequency Jittering (including during frequency foldback mode)
- AC Input Voltage Line Detection
- Up to 20W output SMPS design capability
- Ability to scale for efficiency or size
- Adjust output current protection based on output power demand
- Eliminate acoustic noise
- Eliminate Aux winding
- Provides more robust protection without worrying about the coupling of the aux winding
- Improved efficiency at light load / Improved EMI over the entire load
- <50mW no Load Power Consumption
- Better EMI Signature Over the Entire Operating Range
- Enhanced Protection Against Faults With Low Input Voltage

For more features, see the data sheet

- Auxiliary Supply
- Isolated Standby Power Supply
- White Goods
- Smart Meter / E-Meter
- LED Drivers

| | Pricing (\$/Unit) | Compliance | Status | Control Mode | f_{sw} Typ (kHz) | f_{jitter} Typ (%) | Stand-by Mode | $R_{DS(on)}$ Typ (Ω) | V_{DSS} Max (V) | I_{peak} (mA) | HV Start-up Min (V) | DS S (mA) | UV LO | Short Circuit Protection | Over Power Compensation | Brown-out | Latch | Package Type |
|---------------|-------------------|---|--------|--------------|--------------------|----------------------|---------------|-------------------------------|-------------------|-----------------|---------------------|-----------|-------|--------------------------|-------------------------|-----------|-------|------------------------|
| NCP1075P065G | 0.56 |   | Active | Current Mode | 65 | Yes | Yes | 11 | 700 | 450 | Yes | 8 | 6.3 | Yes | No | No | No | PDI P-7 |
| NCP1075STAT3G | 0.4293 |   | Active | Current Mode | 65 | Yes | Yes | 11 | 700 | 450 | Yes | 8 | 6.3 | Yes | No | No | No | SO T-223-4 / TO-261-4D |
| NCP1075STBT3G | 0.4293 |   | Active | Current Mode | 100 | Yes | Yes | 11 | 700 | 450 | Yes | 8 | 6.3 | Yes | No | No | No | SO T-223-4 / TO-261-4D |
| NCP1075STCT3G | 0.4293 |   | Active | Current Mode | 130 | Yes | Yes | 11 | 700 | 450 | Yes | 8 | 6.3 | Yes | No | No | No | SO T-223-4 / TO-261-4D |

