

NCP1063

SMPS

NCP1063 700 V MOSFET PDIP-7 / SOIC-16 NCP1063 () NCP1063 (60 /100 kHz) AC (A) (OPP) 2 NCP1060 NCP1063

- Built-in 700 V MOSFET with RDS(on) of 11.4 Ω
- Large Creepage Distance Between High-voltage Pins
- Adjustable Peak Current up to 650 mA
- Direct Feedback connection for non-isolated converter
- Internal and Adjustable Over Power Protection (OPP) Circuit
- Auto-Recovery Output Short Circuit Protection with Timer-Based Detection
- Frequency Jittering (including during frequency foldback mode)
- Current-Mode Fixed Frequency Operation – 60 or 100 kHz (130 kHz on demand)
- Frequency Foldback Operation
- AC Input Voltage Line Detection
- Up to 12W output SMPS design capability
- Safer and more robust design even with SMD packages
- Increased design scalability
- Simpler and lower cost Buck or Buck-Boost designs
- Non dissipative proprietary technique to self protect the load
- Provides more robust protection without worrying about the coupling of the aux winding
- Better EMI Signature Over the Entire Operating Range
- Ability to scale for efficiency or size
- Improved efficiency at light load / Improved EMI over the entire load conditions
- Enhanced Protection Against Faults With Low Input Voltage

For more features, see the data sheet

- Auxiliary Power Supply Isolated and Non-isolated
- White goods (Washing, Cold, Aircon ,...)
- LED Lighting systems
- Wide Vin Industrial low power SMPS
- Power Meter SMPS
- Auxiliary Power Supply Isolated and Non-isolated
- White goods (Washing, Cold, Aircon ,...)
- LED Lighting systems
- Wide Vin Industrial low power SMPS
- Power Meter SMPS

	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
NCP1063AD060R2G	0.3814	 	Active	Current Mode	60	Yes	Yes	11.4	700	650	Yes	8	7	Yes	Yes	No	No	SOIC-16
NCP1063AD100R2G	0.3976	 	Active	Current Mode	100	Yes	Yes	11.4	700	650	Yes	8	7	Yes	Yes	No	No	SOIC-16
NCP1063AP060G	0.4735	 	Active	Current Mode	60	Yes	Yes	11.4	700	650	Yes	8	7	Yes	Yes	No	No	PDP-7
NCP1063AP100G	0.4666	 	Active	Current Mode	100	Yes	Yes	11.4	700	650	Yes	8	7	Yes	Yes	No	No	PDP-7