





# 650V CoolSETTM

## **Product Highlights**

### 650V Fixed Frequency CoolSET™

- 650V avalanche rugged CoolMOS<sup>™</sup> with startup cell
- Active Burst Mode to reach the lowest Standby Power Requirements <50mW
- Auto Restart protection for overload, overtemperature, overvoltage
- External auto-restart enable function
- Built-in soft start and blanking window
- Extendable blanking Window for high load jumps
- Built-in frequency jitter and soft driving for low EMI
- Green Mould Compound
- Pb-free lead plating
- RoHS compliant

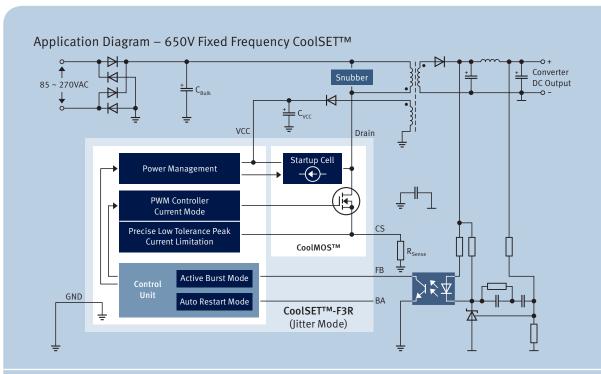
Product	Frequency <sub>(SW)</sub>	V <sub>DS(breakdown)</sub>	R <sub>DS(on)</sub>	Power <sub>(Universal)</sub>	Package
	[kHz]	[V]	[Ω]	[W]	
ICE3BR4765J	65	650	4.7	18	DIP-8
ICE3BR1765J	65	650	1.7	31	DIP-8
ICE3BR0665J	65	650	0.6	49	DIP-8
ICE3BR4765JZ	65	650	4.7	18	DIP-7
ICE3BR1765JZ	65	650	1.7	30	DIP-7
ICE3BR0665JZ	65	650	0.6	47	DIP-7
ICE3BR4765JG	65	650	4.7	17	DSO-12
ICE3A1065ELJ	100	650	3.0	16	DIP-8
ICE3A2065ELJ	100	650	1.0	28	DIP-8
ICE2QR4765	-	650	4.7	19	DIP-8
ICE2QR1765	-	650	1.7	33	DIP-8
ICE2QR0665	-	650	0.6	50	DIP-8

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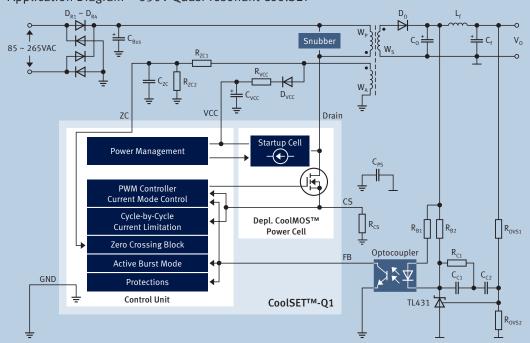
### 650V Quasi-resonant CoolSET™

- 650V avalanche rugged CoolMOS<sup>TM</sup> with built-in startup cell
- Quasiresonant operation till very low load
- Active burst mode operation for low standby input power <0.1W</li>
- Digital frequency reduction with decreasing load for reduced switching loss
- Built-in digital soft-start
- Foldback point correction and cycleby-cycle peak current limitation
- Maximum on time limitation
- Auto restart mode for VCC
   Overvoltage and Undervoltage protections
- Auto restart mode for overload protection
- Auto restart mode for overtemperature protection
- Latch-off mode for adjustable output overvoltage protection and transformer short-winding protection

## 650V CoolSETTM



## Application Diagram - 650V Quasi-resonant CoolSET™



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