TOP-SIDE COOLING
YOUR CHOICE

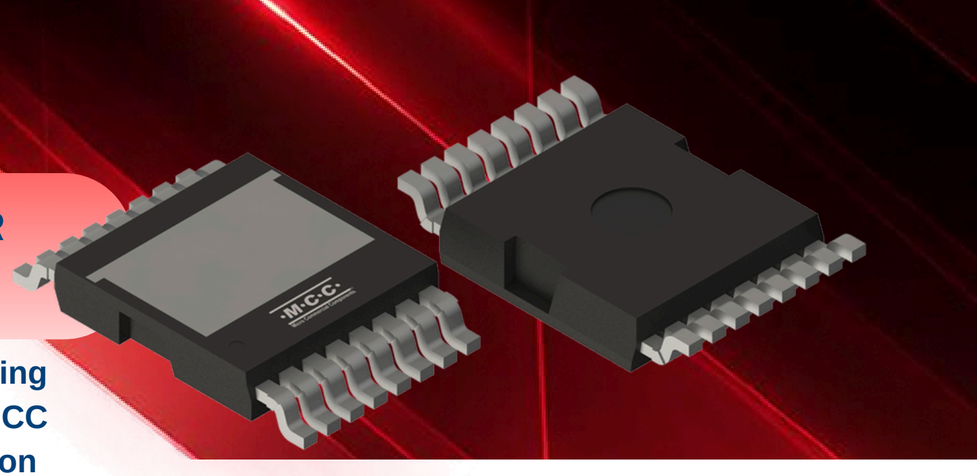
Lower Thermal Resistance

Higher Power Density

Space Efficient Design

Flexible Design Option

TOLT / TOLT-N POWER MOSFET PLATFORM



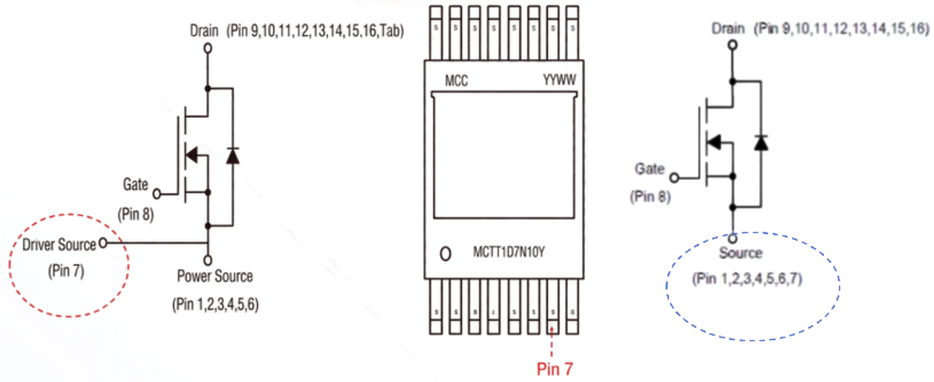
From High-Performance Switching to High-Current Applications, MCC gives designers more choices on the same top-side cooling platform

SAME TOP-SIDE COOLING CONCEPT
DIFFERENT SOURCE CONFIGURATION

100V/1.7mΩ Comparison

Parameter	MCTT1D7N10Y TOLT	MCTTN1D7N10YHE3 TOLT-N
ID (25°C)	333 A	330 A
Source Configuration	Kelvin	Normal
EAS	2722 mJ	2256 mJ
RSP	$ 2.8978	$ 1.9700

Pin configuration for MCTT and MCTTN

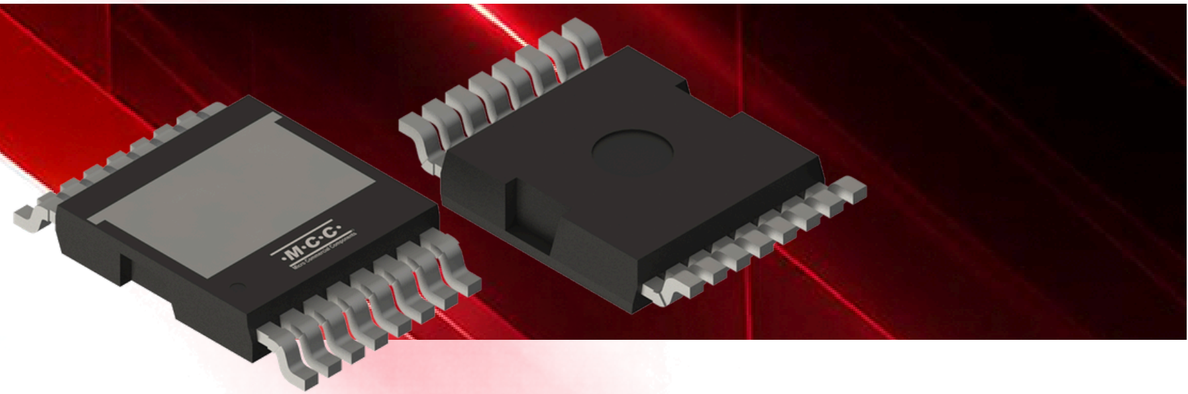


Kelvin Source:

1. Faster Turn-On
2. Reduced Switching Loss
3. Lower Risk of Faulty Turn-On
4. Higher Reliability

TOLT (MCTT)	Feature	TOLT-N (MCTTN)
Top-Side Cooling	**Package Concept**	Top-Side Cooling
Kelvin/Driver Source	**Pin 7**	Normal Source
High Performance Switching	**Best Fit**	General High-Current Switching

ONE PLATFORM,
TWO CONFIGURATIONS.



EXPANDING THE TOP-SIDE COOLING PORTFOLIO

Configuration	MPN	$V_{DS(on)}$ (V)	I_D (25°C) (A)	$R_{DS(on)}$max (mΩ)	E_{AS}(mJ)	Application
TOLT	MCTT1D7N10Y	100	333	1.7	2722	High-reliability motor drives, industrial inverters, server power, VRM, high-current DC-DC, energy systems
	MCTT1D9N10YH	100	272	1.9	1225	High-frequency DC-DC, server/telecom power, VRM, industrial motor control, high-density power conversion
TOLT-N	MCTTN1D7N10YHE3	100	330	1.7	2256	General-purpose motor drives, power tools, EV battery protection, pumps, fans, auxiliary power systems
	MCTTN3D5N10YQ	100	160	3.5	473	PDU, BMS, battery protection, pumps, fans, EPS, braking systems, body electronics

Contact your local sales representative for the complete product portfolio and regional availability.