

TQM033NB04CR, TQM150NB04CR, TQM050NB06CR

AUTOMOTIVE MOSFET, 40V/60V, N-CHANNEL, STANDARD LEVEL, $T_J=175^{\circ}\text{C}$



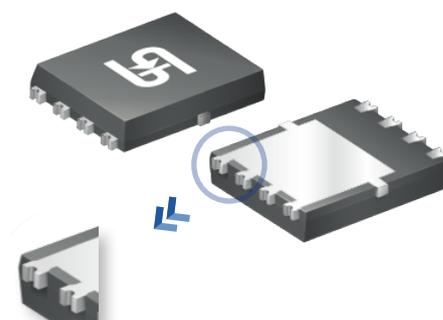
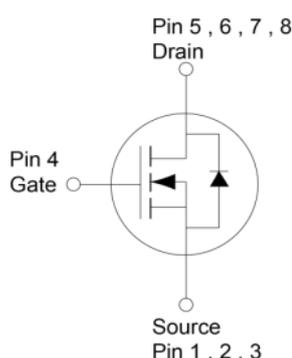
This Power MOSFET family is designed by the trench technology in a PDFN56U (5x6 mm²) package. The PDFN56U package is suitable for compact designs with good thermal performance and Wettable Flank lead for Automated Optical Inspection (AOI). This product family has been qualified by AEC-Q101 standard to meet the high performance and reliability requirements of automotive applications.

KEY FEATURES & ADVANTAGES:

- AEC-Q101 Qualified
- 100% UIS and R_{θ} Tested
- 175°C Operating Junction Temperature
- Wettable Flank
- RoHS Compliant & Halogen-Free

APPLICATION:

- 12V Automotive Systems
- Solenoid and Motor Control
- Automotive Transmission Control
- DC-DC Converters



**PDFN56U
WITH WETTABLE FLANK**

KEY PERFORMANCE

PART NUMBER	PACKAGE	CHANNEL TYPE	V_{DS} [V]	$R_{DS(ON)}$ MAX. @10V [mΩ]	$R_{DS(ON)}$ MAX. @7V [mΩ]	$V_{GS(TH)}$ TYP. [V]	Q_G TYP. @ 10V [nC]	Q_G TYP. @ 7V [nC]	Q_{GS} [nC]	Q_{GD} [nC]	T_J MAX. [°C]	AEC-Q101 QUALIFIED
TQM033NB04CR	PDFN56U	N	40	3.3	5.1	2.5	87	64	20	23	175	Yes
TQM150NB04CR	PDFN56U	N	40	15	21	2.5	20	15	5.4	4.7	175	Yes
TQM050NB06CR	PDFN56U	N	60	5	7	2.6	114	82	29	27	175	Yes

For pricing and more information, please contact TSC sales or authorized distributors.