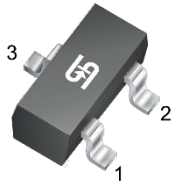


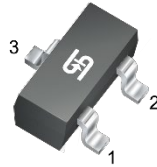


# Automotive Small-signal MOSFET

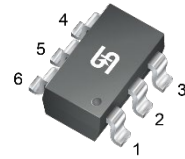
SOT-23



SOT-323



SOT-363



N-Channel	Dual N-Channel	P-Channel	Dual P-Channel

## Key Features

- AEC-Q101 qualified
- Manufactured in IATF 16949 certified facilities
- Advanced trench cell design
- ESD protected (HBM >2kV)
- Moisture sensitivity level: level 1, per J-STD-020
- RoHS Compliant
- Halogen-free

## Applications

- General purpose switching circuits
- High-speed line drivers
- Low-side load switches
- Relay driver
- ADAS system
- In Vehicle Infotainment
- Drop-in replacement for industry standard commercial versions

## Product Portfolio

Part Number	Package	Type	Config	ESD	$BV_{DS}$ (V)	$V_{GS}$ (V)	$I_D$ (mA)	$V_{GS(TH)}$ (V)	$R_{DS(ON)}$ typ ( $\Omega$ ) @10V <sub>GS</sub>	$R_{DS(ON)}$ typ ( $\Omega$ ) @4.5V <sub>GS</sub>
TQM2N7002KCX	SOT-23	N-MOS	Single	$\geq 2KV$	60	$\pm 20$	370	0.8 ~ 2.5	1.2	1.5
TQM2N7002KCU	SOT-323		Single	$\geq 2KV$	60	$\pm 20$	320	0.8 ~ 2.5	1.2	1.5
TQM2N7002KDCU6	SOT-363		Dual	$\geq 2KV$	60	$\pm 20$	330	0.8 ~ 2.5	1.2	1.5
TQM138KCX	SOT-23		Single	$\geq 2KV$	60	$\pm 20$	360	0.5 ~ 1.5	1.2	1.3
TQM138KCU	SOT-323		Single	$\geq 2KV$	60	$\pm 20$	310	0.5 ~ 1.5	1.2	1.3
TQM138KDCU6	SOT-363		Dual	$\geq 2KV$	60	$\pm 20$	320	0.5 ~ 1.5	1.2	1.3
TQM123KCX	SOT-23		Single	$\geq 2KV$	100	$\pm 20$	170	1.5 ~ 2.5	3.5	4.3



Part Number	Package	Type	Config	ESD	$BV_{DS}$ (V)	$V_{GS}$ (V)	$I_D$ (mA)	$V_{GS(TH)}$ (V)	$R_{DS(ON)}$ typ ( $\Omega$ ) @10V <sub>GS</sub>	$R_{DS(ON)}$ typ ( $\Omega$ ) @4.5V <sub>GS</sub>
TQM84KCX	SOT-23	P-MOS	Single	$\geq 2KV$	-60	$\pm 20$	-190	-0.8 ~ -2.5	1.9	2.3
TQM84KCU	SOT-323		Single	$\geq 2KV$	-60	$\pm 20$	-160	-0.8 ~ -2.5	1.9	2.3
TQM84KDCU6	SOT-363		Dual	$\geq 2KV$	-60	$\pm 20$	-170	-0.8 ~ -2.5	1.9	2.3

### Ordering Information

Ordering Part Number	Package	Reel (pcs)	Reel Size (inch)	Inner Box (pcs)	Carton (pcs)	Carton Size (mm)	Gross Weight (kg/ carton)
TQM2N7002KCX RFG	SOT-23	3,000	7	18,000	108,000	85 * 270 * 217	3.95
TQM2N7002KCU RFG	SOT-323						
TQM2N7002KDCU6 RFG	SOT-363						
TQM138KCX RFG	SOT-23						
TQM138KCU RFG	SOT-323						
TQM138KDCU6 RFG	SOT-363						
TQM123KCX RFG	SOT-23						
TQM84KCX RFG	SOT-23						
TQM84KCU RFG	SOT-323						
TQM84KDCU6 RFG	SOT-363						

For more information or other products, please visit TSC website <https://www.taiwansemi.com/>