



## Product Overview

### NTK3139P: Small Signal MOSFET -20V -780mA 480 mOhm Single P-Channel SOT-723 with ESD Protection

For complete documentation, see the data sheet

#### Product Description

Power MOSFET 20 V, 780 mA, Single P-Channel with ESD Protection, SOT-723

#### Features

- P-channel Switch with Low RDS(on)
- 44% Smaller Footprint and 38% Thinner than SC-89
- Low Threshold Levels, 1.5 V RDS(on) Rating
- These are Pb-Free Devices

#### Benefits

- System Efficiency Improvement
- Board Space Saving
- Operate at Low Voltage Gate Drive Logic Level
- RoHS Compliance

#### Applications

- Load/Power Switching
- Interfacing, Logic Switching
- Battery Management for Ultra Small Portable Electronics

#### End Products

- Cell Phone, DSC, MP3 Player, Portable Game

#### Part Electrical Specifications

Product	Compliance	Status	Channel Polarity	Configuration	V <sub>DS</sub> (BR) Min (V)	V <sub>GS</sub> Max (V)	V <sub>GS</sub> (th) Max (V)	I <sub>D</sub> Max (A)	P <sub>D</sub> Max (W)	r <sub>DS(on)</sub> Max @ V <sub>GS</sub> = 2.5 V (m)	r <sub>DS(on)</sub> Max @ V <sub>GS</sub> = 4.5 V (m)	r <sub>DS(on)</sub> Max @ V <sub>GS</sub> = 10 V (m)	Q <sub>g</sub> Typ @ V <sub>GS</sub> = 4.5 V (nC)	Q <sub>g</sub> Typ @ V <sub>GS</sub> = 10 V (nC)	Q <sub>gd</sub> Typ @ V <sub>GS</sub> = 4.5 V (nC)	Q <sub>rr</sub> Typ (nC)	C <sub>iss</sub> Typ (pF)	C <sub>oss</sub> Typ (pF)	C <sub>rss</sub> Typ (pF)	Package Type
NTK3139PT1G	Pb-free Halide free	Active	P-Channel	Single	20	6	1.2	0.78	0.55		480					5	113	15	9	SOT-723-3
NTK3139PT5G	Pb-free Halide free	Active	P-Channel	Single	20	6	1.2	0.78	0.55		480					5	113	15	9	SOT-723-3

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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