



PROTON

# JSC “Proton”

## MOSFET chip DMOST043-02

### Description

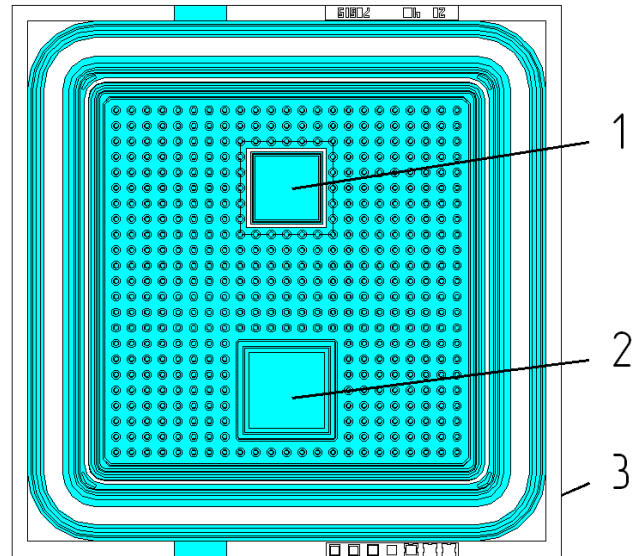
MOSFET chip with induced channel (normally-off)  
DMOST043-02 is designed to be used in hybrid microchips and packaged field-effect transistors.

### Features

- Chip size – 1.56 x 1.56 mm
- Chip thickness – 0.42±0.02 mm
- Contact pads size:  
Gate – 0.194 x 0.194 mm  
Source – 0.215 x 0.215 mm
- Metallization: top – AlSi,  
bottom – CrAu for bonding on conductive adhesive

### Absolute maximum ratings

Maximum temperature	
Storage temperature	- 60 °C to 100 °C
Operating junction temperature	- 45 °C to 85 °C
Maximum voltage	
Drain-to-Source voltage	400 V
Gate-to-Source voltage	± 20 V



- 1 - Gate  
2 - Source  
3 - Drain

### Electrical characteristics (T<sub>A</sub> = 25 °C)

Parameter	Symbol	Unit	Min.	Typ.	Max.	Conditions
Static Drain-to-Source ON-State Resistance	R <sub>DS(ON)</sub>	Ohm			15	V <sub>GS</sub> = 4.5 V, I <sub>D</sub> = 100 mA
Gate Body Leakage Current	I <sub>GSS</sub>	μA			0.1	V <sub>GS</sub> = ± 20 V, V <sub>DS</sub> = 0 V
Drain-to-Source Leakage Current	I <sub>D(OFF)</sub>	μA			1	V <sub>GS</sub> = 0.7 V, V <sub>DS</sub> = 400 V
Gate Threshold Voltage	V <sub>GS(th)</sub>	V			0.95	V <sub>GS</sub> = 0 V, I <sub>S</sub> = 120 mA