

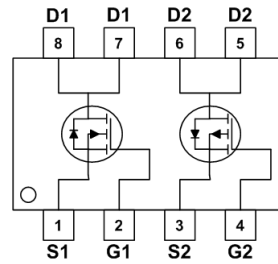
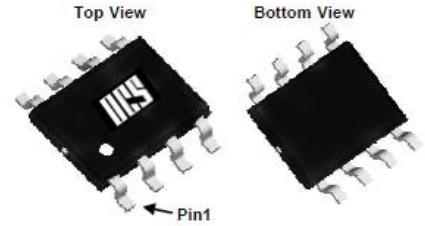


Features

- Trench Technology
- Supper high density cell design
- Fast Switching Extremely Low Threshold Voltage
- 100% Avalanche test
- Pb-free lead plating, RoHS compliant
- Package SOP-8L

Product Summary

| | BV _{DSS} | R _{DS(on)} Type | I _D Max |
|------|-------------------|--------------------------------|--------------------|
| N-CH | 30V | 18m Ω @ V _{GS} =10V | 8A |
| | | 25m Ω @ V _{GS} =4.5V | 6A |
| P-CH | -30V | 27m Ω @ V _{GS} =-10V | -8A |
| | | 38m Ω @ V _{GS} =-4.5V | -6A |



Application

- DC/DC converters
- Power supply converters circuit
- Power Load Switch
- BLDC



Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

| Parameter | Symbol | N-Channel | P-Channel | Unit | |
|--|----------------------------------|----------------------|------------|------|---|
| Drain-Source Voltage | V _{DS} | 30 | -30 | V | |
| Gate-Source Voltage | V _{GS} | ±20 | ±20 | V | |
| Continuous Drain Current ^{1,4} | I _D | T _A =25°C | 8 | -8 | A |
| | | T _A =70°C | 6 | -6 | |
| Pulsed Drain Current ^{2,4} | I _{DM} | 32 | -32 | A | |
| Single Pulse Avalanche (L=0.5mH) | EAS | 12 | 35 | mJ | |
| Maximum Power Dissipation ³ | PD | 2 | 2 | W | |
| Operating Junction and Storage Temperature Range | T _J ,T _{STG} | -55 To 150 | -55 To 150 | °C | |

Thermal Characteristic

| Parameter | Symbol | Rating | Unit |
|---|------------------|--------|------|
| Thermal Resistance, Junction-to-Ambient ^(Note 1) | R _{θJA} | 62 | °C/W |