

# NEWSLETTER 003-2010

## HV MOSFET – TSM7N65

### Ordering Information:

\* TSM7N65CI C0  
(ITO-220)

\* TSM7N65CZ C0  
(TO-220)



### Typical Applications:

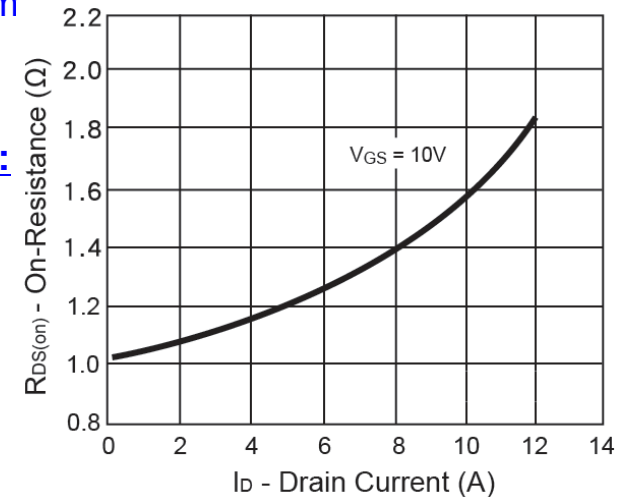
- PC Power Supply
- Adaptor Power Supply
- TV Power Supply
- Lighting Power System

### Features:

- Drain-Source Voltage 650V (Min.)
- Drain Current 7A (Max.)
- Low RDS(ON) @ 1.2Ω (Max)
- Low Gate Charge @ 32nC (Typ.)
- Low Crss @ 25pF (Typ.)
- Fast Switching

### Closest Cross Reference:

- STP9NK65 (STM)
- FQP7N65 (Fairchild)



# NEWSLETTER 003-2010

## HV MOSFET – TSM9N50

### Ordering Information:

\* TSM9N50CI C0  
(ITO-220)

\* TSM9N50CZ C0  
(TO-220)



### Typical Applications:

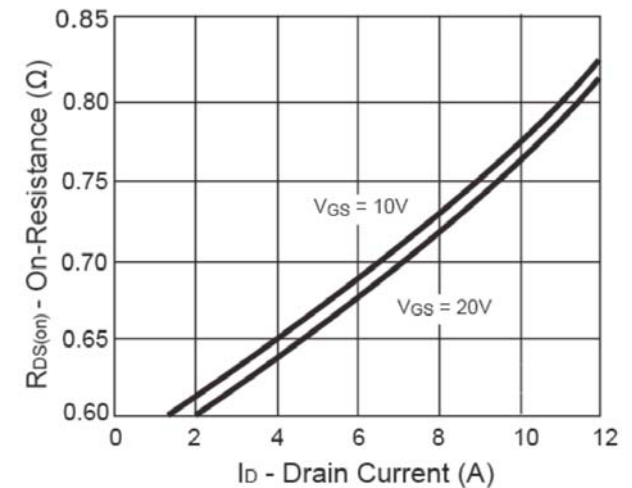
- PC Power Supply
- Adaptor Power Supply
- TV Power Supply
- Lighting Power System

### Features:

- Drain-Source Voltage 500V (Min.)
- Drain Current 7.2A (Max.)
- Low RDS(ON) @ 0.72Ω (Max)
- Low Gate Charge @ 32nC (Typ.)
- Low Crss @ 30pF (Typ.)
- Fast Switching

### Closest Cross Reference:

- STP9NK50 (STM)
- FQP9N50 (Fairchild)



# NEWSLETTER 003-2010

## HV MOSFET – TSM1N45

### Ordering Information:

\* TSM1N45CT B0 (TO-92)



### Features:

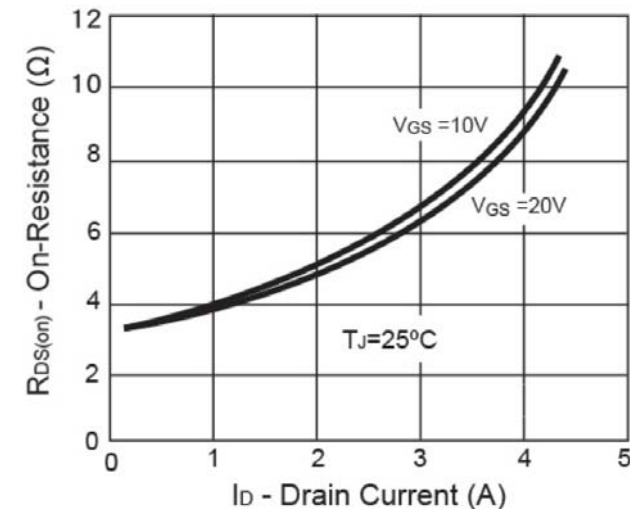
- Drain-Source Voltage 450V (Min.)
- Drain Current 0.5A (Max.)
- Low RDS(ON) @ 4.25Ω (Max)
- Low Gate Charge @ 6.5nC (Typ.)
- Low Crss @ 6.5pF (Typ.)
- Fast Switching

### Typical Applications:

- Ballast Lighting
- Energy Saving Lamps

### Closest Cross Reference:

- STQ1NC45 (STM)
- SSN1N45B (Fairchild)



# NEWSLETTER 003-2010

## HV MOSFET – TSM1N45D

### Ordering Information:

\* TSM1N45DCS RL (SOP-8)



### Typical Applications:

- Ballast Lighting
- Energy Saving Lamps

### Closest Cross Reference:

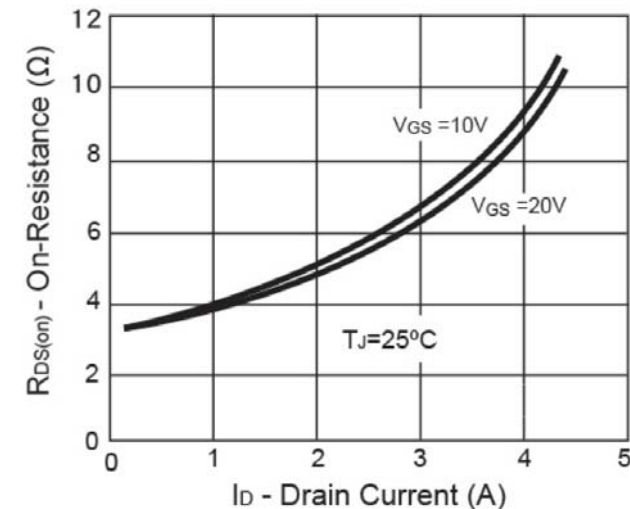
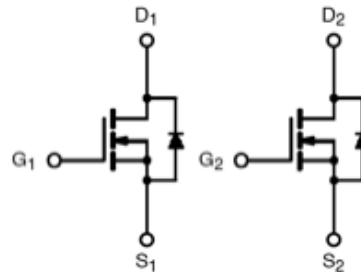
- STS1DNC45 (STM)



### Features:

- Drain-Source Voltage 450V (Min.)
- Drain Current 0.5A (Max.)
- Low RDS(ON) @ 4.25Ω (Max)
- Low Gate Charge @ 6.5nC (Typ.)
- Low Crss @ 6.5pF (Typ.)
- Fast Switching

Block Diagram  
Dual N-CH MOSFET



# NEWSLETTER 003-2010

## HV MOSFET – TSM1N50

### Ordering Information:

\* TSM1N50CT B0 (TO-92)



### Features:

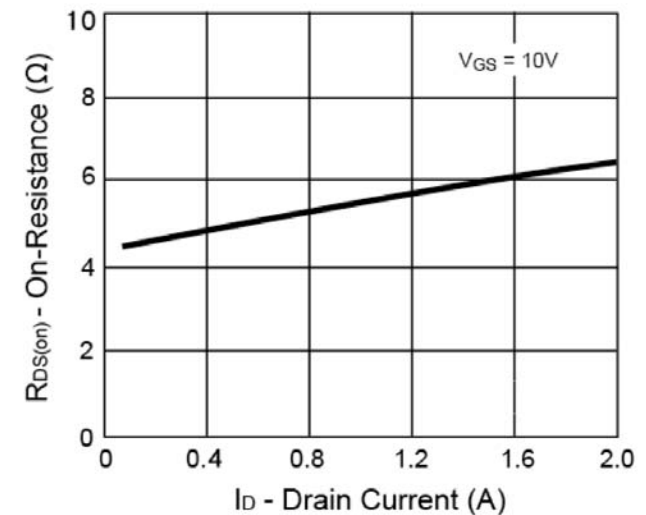
- Drain-Source Voltage 500V (Min.)
- Drain Current 0.5A (Max.)
- Low RDS(ON) @ 5.5Ω (Max)
- Low Gate Charge @ 4.5nC (Typ.)
- Low Crss @ 3pF (Typ.)
- Fast Switching

### Typical Applications:

- Ballast Lighting
- Energy Saving Lamps

### Closest Cross Reference:

- FQN1N50C (Fairchild)



# NEWSLETTER 003-2010

## HV MOSFET – TSM4ND50

### Ordering Information:

\* TSM4ND50CP RO (TO-252/DPAK)



### Typical Applications:

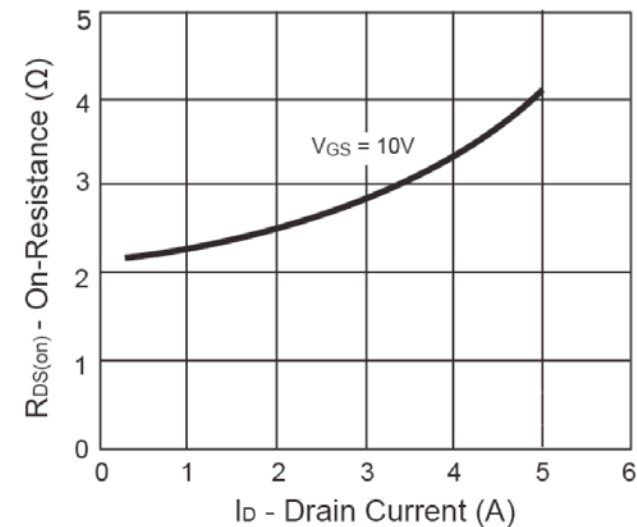
- Ballast Lighting

### Closest Cross Reference:

- STD4NK50 (STM)
- FQD4N50 (Fairchild)

### Features:

- Drain-Source Voltage 500V (Min.)
- Drain Current 3A (Max.)
- Low RDS(ON) @ 2.7Ω (Max)
- Low Gate Charge @ 12nC (Typ.)
- Low Crss @ 10pF (Typ.)
- Fast Switching
- ESD Protection



# NEWSLETTER 003-2010

## HV MOSFET – TSM5ND50

### Ordering Information:

\* TSM5ND50CP RO (TO-252/DPAK)



### Typical Applications:

- Ballast Lighting

### Closest Cross Reference:

- STD5NK50 (STM)
- FQD5N50 (Fairchild)

### Features:

- Drain-Source Voltage 500V (Min.)
- Drain Current 4.4A (Max.)
- Low RDS(ON) @ 1.5Ω (Max)
- Low Gate Charge @ 20nC (Typ.)
- Low Crss @ 17pF (Typ.)
- Fast Switching
- ESD Protection

