

## N-Channel 100-V (D-S) MOSFET

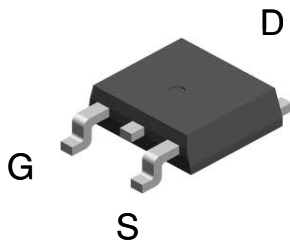
### General Description

B0210D is the N-Channel logic enhancement mode power field effect transistors to provide excellent  $R_{DS(on)}$ , low gate charge and low gate resistance. It's up to 100V operation voltage is suitable for switching mode power supply, SMPS, notebook computer power management and other battery powered circuits

### Features

- $R_{DS(ON)}=220m\Omega@V_{GS}=10V$
- $R_{DS(ON)}=270m\Omega@V_{GS}=4.5V$
- High Density Cell Design for Low  $R_{DS(ON)}$
- Exceptional On-Resistance and Maximum DC Current
- TO-252-3 Package

### Pin Configuration



### Applications

- LED backlight
- LCD monitor
- LCD TV
- DC/DC Converter
- Load Switch

### Absolute Maximum Ratings (TA=25°C Unless Otherwise Noted):

Parameter	Symbol	N-Channel	Unit
Drain-Source Voltage	$V_{DSS}$	100	V
Gate-Source Voltage	$V_{GSS}$	$\pm 20$	V
Continuous Drain Current (tJ=150°C)	$I_D$	TA=25°C	10
		TA=70°C	6
Pulsed Drain Current	$I_{DM}$	20	A
Continuous Source Current (Diode Conduction)	$I_S$	1.7	A
Maximum Power Dissipation	$P_D$	TA=25°C	25
		TA=70°C	16
Operating Junction Temperature	$T_J$	-55 to 150	°C
Thermal Resistance-Junction to Case	$R_{\theta JC}$	5	°C/W