

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

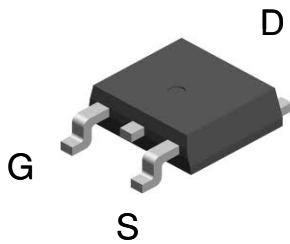
General Description

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