

1000V N-Channel Depletion-Mode Power MOSFET

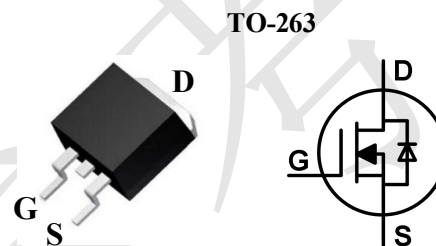
General Features

- Depletion Mode (Normally On)
- Rugged Polysilicon Gate Cell Structure
- Fast Switching Speed
- High Power Density
- RoHS Compliant
- Halogen-free Available
- International Standard Packages

BV_{DSX}	$R_{DS(ON)} (Max.)$	$I_{DSS(Min)}$
1000V	30Ω	1A

Applications

- Suppressing Surge Current
- Start-up Circuits
- Converters
- Synchronous Rectification
- Audio Amplifiers
- Constant Current Source
- Ramp Generators
- Current Regulators
- Protection Circuits



Ordering Information

Part Number	Package	Marking	Remark
DMP82C100A	TO-263	82C100A	Halogen Free

Absolute Maximum Ratings

 $T_C=25^{\circ}C$ unless otherwise specified

Symbol	Parameter	DMP82C100A	Unit
V_{DSX}	Drain-to-Source Voltage ^[1]	1000	V
V_{DGX}	Drain-to-Gate Voltage ^[1]	1000	V
P_D	Power Dissipation	60	W
	Derating Factor above 25°C	60	W/°C
V_{GS}	Gate-to-Source Voltage	±20	V
T_L	Soldering Temperature	300	°C
	Distance of 1.6mm from case for 10 seconds		
T_J and T_{STG}	Operating and Storage Temperature Range	-55 to 150	

Caution: Stresses greater than those listed in the "Absolute Maximum Ratings" may cause permanent damage to the device.