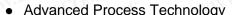
# International **TOR** Rectifier

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

PD - 9.1485B

# IRF9Z34N

## HEXFET® Power MOSFET

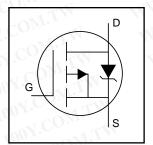


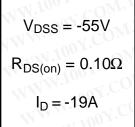
- Dynamic dv/dt Rating
- 175°C Operating Temperature
- Fast Switching
- P-Channel
- Fully Avalanche Rated

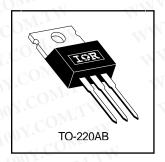
#### **Description**

Fifth Generation HEXFETs from International Rectifier utilize advanced processing techniques to achieve extremely low on-resistance per silicon area. This benefit, combined with the fast switching speed and ruggedized device design that HEXFET Power MOSFETs are well known for, provides the designer with an extremely efficient and reliable device for use in a wide variety of applications.

The TO-220 package is universally preferred for all commercial-industrial applications at power dissipation levels to approximately 50 watts. The low thermal resistance and low package cost of the TO-220 contribute to its wide acceptance throughout the industry.







### **Absolute Maximum Ratings**

	Parameter	Max.	Units
I <sub>D</sub> @ T <sub>C</sub> = 25°C	Continuous Drain Current, V <sub>GS</sub> @ -10V	-19	N.
I <sub>D</sub> @ T <sub>C</sub> = 100°C	Continuous Drain Current, V <sub>GS</sub> @ -10V	-14	Α
I <sub>DM</sub>	Pulsed Drain Current ①	-68	V
P <sub>D</sub> @T <sub>C</sub> = 25°C	Power Dissipation	68	W
	Linear Derating Factor	0.45	W/°C
$V_{GS}$	Gate-to-Source Voltage	± 20	V
E <sub>AS</sub>	Single Pulse Avalanche Energy②	180	mJ
I <sub>AR</sub>	Avalanche Current①	-10	Α
E <sub>AR</sub>	Repetitive Avalanche Energy①	6.8	mJ
dv/dt	Peak Diode Recovery dv/dt ③	-5.0	V/ns
TJ	Operating Junction and	-55 to + 175	
T <sub>STG</sub>	Storage Temperature Range		°C
	Soldering Temperature, for 10 seconds	300 (1.6mm from case )	1
	Mounting torque, 6-32 or M3 screw	10 lbf•in (1.1N•m)	

#### Thermal Resistance

	Parameter	Тур.	Max.	Units
$R_{\theta JC}$	Junction-to-Case		2.2	
$R_{\theta CS}$	Case-to-Sink, Flat, Greased Surface	0.50		°C/W
$R_{\theta JA}$	Junction-to-Ambient		62	