Apéndice C

Hoja de datos técnicos International Rectifier IRFP460

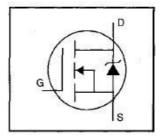
International Rectifier

PD-9.512E

IRFP460

HEXFET® Power MOSFET

- Dynamic dv/dt Rating
- Repetitive Avalanche Rated
- Isolated Central Mounting Hole
- Fast Switching
- · Ease of Paralleling
- Simple Drive Requirements



$$V_{DSS} = 500V$$

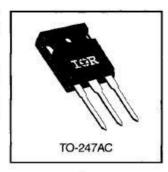
$$R_{DS(on)} = 0.27\Omega$$

$$I_{D} = 20A$$

Description

Third Generation HEXFETs from International Rectifier provide the designer with the best combination of fast switching, ruggedized device design, low on-resistance and cost-effectiveness.

The TO-247 package is preferred for commercial-industrial applications where higher power levels preclude the use of TO-220 devices. The TO-247 is similar but superior to the earlier TO-218 package because of its isolated mounting hole. It also provides greater creepage distance between pins to meet the requirements of most safety specifications.



Absolute Maximum Ratings

	Parameter	Max.	Units	
I _D @ T _C = 25°C	Continuous Drain Current, V _{GS} @ 10 V 20			
Ip @ Tc = 100°C	Continuous Drain Current, VGS @ 10 V	13		
I _{DM}	Pulsed Drain Current ①	80		
P _D @ T _C = 25°C	Power Dissipation	280	W	
	Linear Derating Factor	2.2	W/°C	
Vgs	Gate-to-Source Voltage	±20	٧	
Eas	Single Pulse Avalanche Energy @	960	mJ	
IAR	Avalanche Current ①	20	A	
EAR	Repetitive Avalanche Energy ①	28	mJ	
dv/dt	Peak Diode Recovery dv/dt ③	3.5	V/ns	
TJ Tsta	Operating Junction and Storage Temperature Range	-55 to +150	∘c	
	Soldering Temperature, for 10 seconds	300 (1.6mm from case)		
	Mounting Torque, 6-32 or M3 screw	10 lbf•in (1.1 N•m)		

Thermal Resistance

	Parameter	Min.	Тур.	Max.	Units
Resc	Junction-to-Case			0.45	°C/W
Recs	Case-to-Sink, Flat, Greased Surface		0.24	_	
Reja	Junction-to-Ambient			40	