

isc N-Channel Mosfet Transistor

IRF540

FEATURES

- Low R_{DS(on)}
- V_{GS} Rated at ±20V
- Silicon Gate for Fast Switching Speed
- Rugged
- Low Drive Requirements
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed especially for high voltage, high speed applications, such as off-line switching power supplies, UPS, AC and DC motor controls, relay and solenoid drivers.

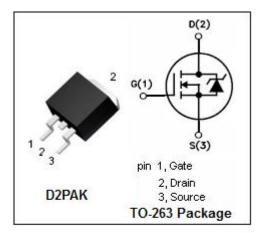


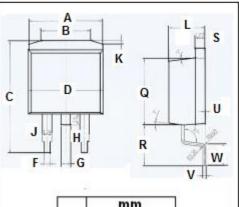
(ia 10)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	100	V			
V _{GS}	Gate-Source Voltage-Continuous	±20	V			
lo	Drain Current-Continuous@ TC=25°C	28	- A			
	Drain Current-continuous@ TC=100°C	20				
I _{DM}	Drain Current-Single Plused	110	А			
PD	Total Dissipation @Tc=25°C	100	W			
Tj	Max. Operating Junction Temperature		°C			
T _{stg}	Storage Temperature	-55~175	°C			



SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.5	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	62	°C/W

1





	mm	
DIM	MIN	MAX
A		0
В	6.6	6.8
C	15.23	15.25
D	10.15	10.17
F	0.76	0.78
G	1.26	1.28
Н	1.4	1.6
J	1.33	1.35
K	0.4	0.6
L	4.6	4.8
0	8.69	8.71
R	5.28	5.30
S	1.26	1.28
U	0.0	0.2
٧	0.37	0.39
W	2.80	2.82



isc N-Channel Mosfet Transistor

IRF540

ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	100			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 17A			0.077	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} =0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 100V; V _{GS} =0			25	uA
Vsd	Forward On-Voltage	I _S = 28A; V _{GS} =0			2.5	V

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.