

P-Channel MOSFET Transistor

FEATURES

- · Drain Current -I_D= -140A@ T_C=25℃
- · Drain Source Voltage -V_{DSS}= -50V(Min)
- · Static Drain-Source On-Resistance
- $-R_{DS(on)} = 9m\Omega(Max)@V_{GS} = -10V$

APPLICATIONS

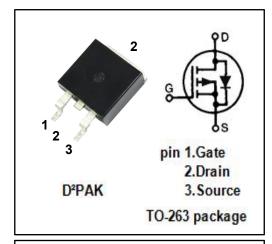
- · DC-DC Converters
- · Automatic Test Equipment
- · High-Side Switching
- · Battery Chargers

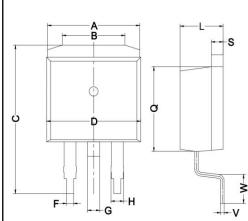
Absolute Maximum Ratings(Tc=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	-50	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
I _D	Drain Current-Continuous	-140	Α
I _{DM}	Drain Current-Single Pulse	-420	Α
P _D	Total Dissipation @Tc=25℃	298	W
TJ	Max. Operating Junction Temperature	150	$^{\circ}$
Tstg	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	0.42	°C/W	





DIM		mm	0	
	MIN	TYP.	MAX	
Α	9.80	10.00	10.20	
В	6.60	6.70	6.80	
C	15.10	15.20	15.30	
D	9.60	9.80	10.00	
F	0.70	0.80	0.90	
G	1.26	1.28	1.30	
H	1.20	1.33	1.45	
L	4.40	4.50	4.60	
Q	9.20	9.25	9.30	
S	1.25	1.30	1.35	
٧	0.40	0.50	0.60	
W	2.60	2.70	2.80	



ISF1175 eq IXTA140P05T

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ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0, I _D = -0.25mA	-50	-	-	V
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = -50V, V _{GS} = 0V	-	-	-10	uA
I _{GSS}	Gate-Body Leakage Current	V_{GS} = $\pm 15V$, V_{DS} = 0 V	1	-	±100	nA
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} , I _D = -0.25mA	-1.0	-	-2.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = -10V, I _D = -70A	-	-	9	mΩ
V _{SD}	Diode Forward Voltage	I _{SD} = -70A, V _{GS} = 0V	-	-	-1.3	V

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