

isc N-Channel MOSFET Transistor

IPP023N04N,IIPP023N04N

• FEATURES

- Static drain-source on-resistance:
 R_Ds(on) ≤2.3mΩ
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

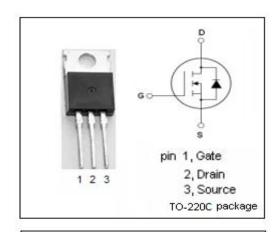
· For ORing and Uninterruptible Power Supply

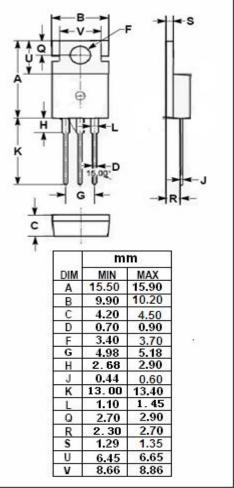
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT		
V _{DSS}	Drain-Source Voltage	40	V		
V _{GS}	Gate-Source Voltage	V			
I _D	Drain Current-Continuous	90			
I _{DM}	Drain Current-Single Pulsed	400	А		
P _D	Total Dissipation @T _C =25°C 167		W		
Tj	Max. Operating Junction Temperature 175		$^{\circ}$		
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$		

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.9	°C/W
Rth(ch-a)	Channel-to-ambient thermal resistance	62	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT			
BV _{DSS}	Drain-Source Breakdown Voltage	V_{GS} =0 V ; I_D = 1 mA	40			V			
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =95 μ A	2		4	V			
$R_{DS(on)}$	Drain-Source On-Resistance	V _{GS} =10V; I _D =90A			2.3	$m\Omega$			
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; V _{DS} = 0V			100	nA			
I _{DSS}	Drain-Source Leakage Current	V _{DS} =40V; V _{GS} = 0V			1	μА			
V_{SD}	Diode forward voltage	IF=90A; V _{GS} = 0V			1.2	V			

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