

isc N-Channel MOSFET Transistor

IXTA7N60P

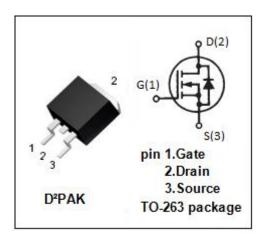
• FEATURES

- Static drain-source on-resistance: R_{DS}(on) ≤ 1.1Ω@V_{GS}=10V
- Fully characterized avalanche voltage and current
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION





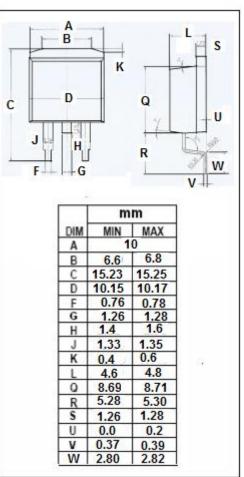


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _{GS}	Gate-Source Voltage	±30	V	
ID	$I_{DM} \qquad \text{Drain Current-Continuous}$ $I_{DM} \qquad \text{Drain Current-Single Pulsed}$ $P_{D} \qquad \text{Total Dissipation @T_{C}=25^{\circ}C}$		А	
I _{DM}			Α	
P _D			W	
Tj	Operating Junction Temperature		$^{\circ}\mathbb{C}$	
T _{stg}	Storage Temperature	-55~150	$^{\circ}\!\mathbb{C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{\text{th(j-c)}}$	Junction-to-case thermal resistance	0.83	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID = 250 μ A	600		٧
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID = 100 μ A	3.0	5.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 3.5A		1.1	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V		±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V		5	- μ А
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 125°C		50	
V _{SD}	Diode forward voltage	I _F = 7A; V _{GS} = 0V		1.5	V



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