

isc N-Channel MOSFET Transistor

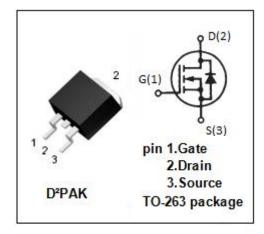
IXTA110N055P

• FEATURES

- Static drain-source on-resistance: R_{DS}(on) ≤13.5mΩ
- Fully characterized avalanche voltage and current
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION

- DC/DC Converter
- Ideal for high-frequency switching and synchronous rectification

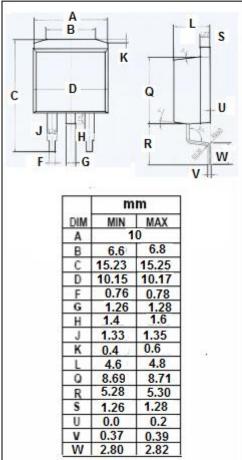


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ABOOLOTE MAXIMOM NATINGO(1a-20 0)						
SYMBOL	PARAMETER	VALUE	UNIT			
V_{DSS}	Drain-Source Voltage	55	V			
V _{GS}	Gate-Source Voltage	±20	V			
I _D	Drain Current-Continuous	110	Α			
I _{DM}	Drain Current-Single Pulsed	250	Α			
P _D	Total Dissipation @T _C =25°C	330	W			
Tj	Operating Junction Temperature -55~175		$^{\circ}$			
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C			

• THERMAL CHARACTERISTICS

SYMBO	L PARAMETER	MAX	UNIT
R _{th(j-c)}	Junction-to-case thermal resistance	0.45	°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	55		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =250 μ A	2.5	5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =55A		13.5	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V		±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 55V; V _{GS} = 0V		25	- μ Α
		V _{DS} = 55V; V _{GS} = 0V;T _J =125°C		250	
V _{SD}	Diode forward voltage	I _F = 110A; V _{GS} = 0V		1.5	V



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