

IXFK 102N30P

Symbo	bl	Test Conditions	(T _J = 25° C, unles Min.	Characte is otherw Typ.	ristic Values ise specified) Max.
9 _{fs}		$V_{\rm DS}$ = 10 V; I _D = 0.5 I _{D25} , pulse to	est 45	57	S
C _{iss} C _{oss} C _{rss}	}	V _{GS} = 0 V, V _{DS} = 25 V, f = 1 MH	łz	7500 1150 230	pF pF pF
t _{d(on)} t _r t _{d(off)} t _f	}	V_{GS} = 10 V, V_{DS} = 0.5 V_{DSS} , I_{D} = R _G = 3.3 Ω (External)	60 A	30 28 130 30	ns ns ns ns
Q _{g(on)} Q _{gs} Q _{gd}	}	V_{GS} = 10 V, V_{DS} = 0.5 V_{DSS} , I_{D} =	0.5 I _{D25}	224 50 110	nC nC nC
R _{thJC} R _{thCS}				0.15	0.18° C/W ° C/W

TO-264 Outline							
$\begin{array}{c} \hline \\ \hline $							
	Dim.	Milli	meter	Inches			
		Min.	Max.	Min.	Max.		
	A	4.82	5.13	.190	.202		
	A1	2.54	2.89	.100	.114		
	A2	2.00	2.10	.079	.083		
	b	1.12	1.42	.044	.056		
	D1	2.39	2.69	.094	.106		
	D2	2.90	3.09	.114	.122		
	c	0.53	0.83	.021	.033		
	D	25.91	26.16	1.020	1.030		
	E	19.81	19.96	.780 .786			
	e	5.46	BSC	.215 BSC			
	J	0.00	0.25	.000	.010		
	K	0.00	0.25	.000	.010		
		20.32	20.83	.800	.820		
		2.29	2.59	.090	.102		
	P	3.17	3.66	.125	.144		
	Q	6.07	6.27	.239	.247		
		8.38	8.69	.330	.342		
		3.81	4.32	.150	.170		
		1.70	2.29	.070	.090		
		0.04	0.30	.230	.240		
		1.57	1.83	.062	.072		

Source-Dr	rain Diode C	Characteristic Value					
Symbol	$(T_{J} = 25^{\circ}C, unles)$ Test Conditions	$(T_J = 25^{\circ} C, unless otherwise)$ Min. Typ.					
l _s	$V_{GS} = 0 V$		102	А			
I _{sm}	Repetitive		250	А			
$V_{\rm SD}$	$I_F = I_S, V_{GS} = 0 V,$ Pulse test, t ≤300 µs, duty cycle d≤ 2 %		1.5	V			
$\left. egin{array}{cc} t_{rr} & \ \mathbf{Q}_{RM} \end{array} ight\}$	I _F = 25 A, -di/dt = 100 A/μs V _R = 100 V, V _{GS} = 0 V	0.8	200	ns μC			

PRELIMINARY TECHNICAL INFORMATION

The product presented herein is under development. The Technical Specifications offered are derived from data gathered during objective characterizations of preliminary engineering lots; but also may yet contain some information supplied during a pre-production design evaluation. IXYS reserves the right to change limits, test conditions, and dimensions without notice.

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IXYS MOSFETs and IGBTs are covered b	y 4,835,592	4,931,844	5,049,961	5,237,481	6,162,665	6,404,065 B1	6,683,344	6,727,585
one or moreof the following U.S. patents:	4,850,072	5,017,508	5,063,307	5,381,025	6,259,123 B1	6,534,343	6,710,405B2	6,759,692
	4,881,106	5,034,796	5,187,117	5,486,715	6,306,728 B1	6,583,505	6,710,463	6,771,478 B2



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