

Symbol		Test Conditions Inless Otherwise Specified)		Characteristic Values Min. Typ. Max.		
$(1_j = 20)$, c, c	orness Otherwise Specified)	IVIIII.	Typ.	IVIAX.	
\mathbf{g}_{fs}		$V_{DS} = 10V, I_{D} = 45A, \text{ Note } 1$	40	70	S	
C _{iss}	}			10	nF	
\mathbf{C}_{oss}		$V_{GS} = 0V, V_{DS} = 25V, f = 1MHz$		1800	pF	
\mathbf{C}_{rss}				700	pF	
t _{d(on)})	Resistive Switching Times $V_{GS} = 10V, V_{DS} = 0.5 \bullet V_{DSS}, I_{D} = 45A$ $R_{G} = 2\Omega \text{ (External)}$		42	ns	
t _r				55	ns	
t _{d(off)}	(100	ns	
t,	J			40	ns	
$\mathbf{Q}_{g(on)}$	}			360	nC	
Q_{gs}		$V_{GS} = 10V, V_{DS} = 0.5 \bullet V_{DSS}, I_{D} = 45A$		60	nC	
\mathbf{Q}_{gd}				180	nC	
R _{thJC}					0.30 °C/W	
$\mathbf{R}_{\mathrm{thCS}}$				0.15	°C/W	

ISOPLUS247 (IXFR) Outline _A1 Z/W

- Gate
- 2 - Drain 3 - Source

Dim.	Millimeter		Inches	
Dim.	min	max	min	max
Α	4.83	5.21	0.190	0.205
A1	2.29	2.54	0.090	0.100
A2	1.91	2.16	0.075	0.085
b	1.14	1.40	0.045	0.055
b2	1.91	2.20	0.075	0.087
b4	2.92	3.24	0.115	0.128
С	0.61	0.83	0.024	0.033
D	20.80	21.34	0.819	0.840
D1	15.75	16.26	0.620	0.640
D2	1.65	2.15	0.065	0.085
D3	20.30	20.70	0.799	0.815
E	15.75	16.13	0.620	0.635
E1	13.21	13.72	0.520	0.540
е	5.45 BSC		0.215	BSC
L	19.81	20.60	0.780	0.811
L1	3.81	4.38	0.150	0.172
Q	5.59	6.20	0.220	0.244
R	4.25	5.50	0.167	0.217
1/1/		0.10		0.004

Source-Drain Diode

		Chara Min.	aracteristic Values a.		
I _s	$V_{GS} = 0V$			90 A	4
I _{SM}	Repetitive, Pulse Width Limited by $T_{_{\rm JM}}$			360 A	4
V _{SD}	$I_F = 45A$, $V_{GS} = 0V$, Note 1			1.5 \	/
$\left\{ egin{array}{ll} \mathbf{I}_{RM} & & \\ & & \\ & & \\ & & \\ \end{array} \right\}$	$I_{_{\rm F}}=50\text{A, -di/dt}=-100\text{A/}\mu\text{s}$ $V_{_{\rm R}}=-100\text{V, V}_{_{\rm GS}}=0\text{V}$		1.4 10	250 ns μC Α	2

1. Pulse test, $t \le 300\mu s$, duty cycle, $d \le 2\%$. Note



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