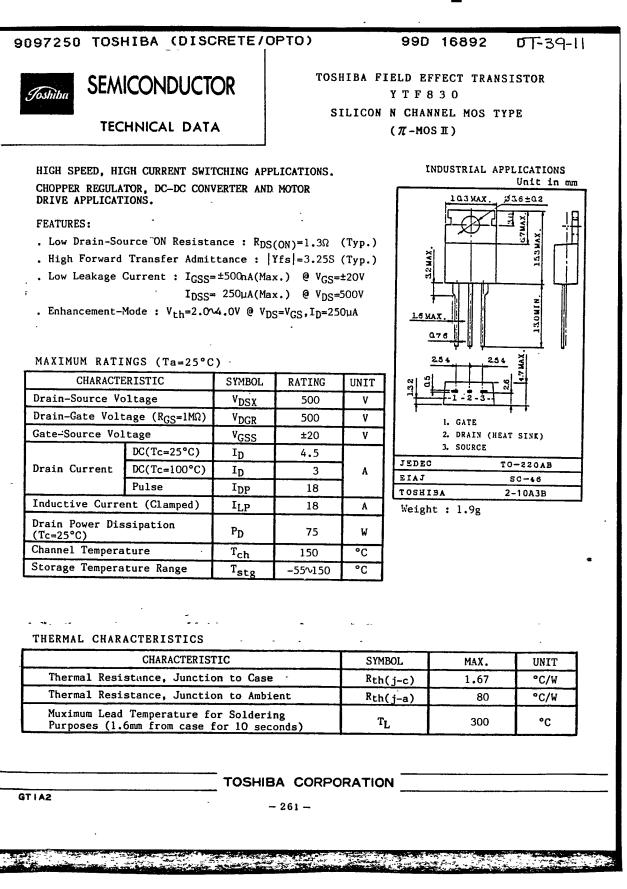
TOS 律调》「影》(获供单E/OPTO}

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TOSHIBA {DISCRETE/OPTO}

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9097250 TOSHIBA (DISCRETE/OPTO) 99					6893	· · C) T-39-1		
SEMICONDUCTOR			Y T F 8 3 O						
ELECTRICAL C		 CS (Ta=25	5°C)						
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT		
Gate Leakage Current		I _{GSS}	V _{GS} =±20V, V _{DS} =0V	-	-	±500	nÁ		
Drain Cut-off Current		I _{DSS}	V _{DS} =500V, V _{GS} =0V, Tc=25°C	1	-	250	μA		
Drain-Source Breakdown Voltage		V(BR)DSS	I _D =250µA, V _{GS} =0V	500	-	-	V		
Gate Threshold Voltage		V _{th}	V _{DS} =V _{GS} , I _D =250µA	2.0	-	4.0	V		
Forward Transfer Admittance		Yfs	V _{DS} =10V, I _D =2.5A	2.5	3.25	-	S		
On-State Drain Current		ID(ON)	V _{DS} =10V, V _{GS} =10V	4.5	-	-	A		
Drain-Source ON Resistance		R _{DS} (ON)	I _D =2.5A, V _{GS} =10V	-	1.3	1.5	Ω		
Drain-Source ON Voltage		VDS(ON)	I _D =4.5A, V _{GS} =10V	-	6.4	8.7	V		
Input Capacitance		Ciss		-	600	800	pF		
Reverse Transfer Capacitance		C _{rss}	V _{DS} =25V, V _{GS} =0V, f=1MHz	-	40	60	pF		
Output Capacitance		C _{oss}		-	150	200	pF		
Switching Time	Rise Time	tr	$ \begin{array}{c c} I \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $		15	30	ns		
	Turn-on Time	ton		-	30	60	ns		
	Fall Time	¢f		-	15	30	ns		
	Turn-off Time	toff		-	40	85	ns .		
Total Gate Charge (Gate-Source Plus Gate-Drain)		Qg	V _{GS} =10V, I _D =6A,	-	22	30	nC		
Gate Source Charge		Qgs	V _{DS} =400V	-	11	-	nC		
Gate-Drain ("Miller") Charge		Q _{gd}		-	11	-	nC		

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SOURCE-DRAIN DIODE RATINGS AND CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Continuous Source Current	JS		-	-	4.5	A
Pulse Source Current	I _{SP}		-	-	18	A
Diode Forward Voltage	V _{SD}	I _S =4.5A, V _{GS} =0V, Tc=25°C	-	-	1.6	V
Reverse Recovery Time	t _{rr}	Tj=150°C, I _F =4.5A,	-	800	-	ns
Reverse Recovered Charge	Q _{rr}	dI _F /dt=100A/µs	-	4.6	-	μC

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