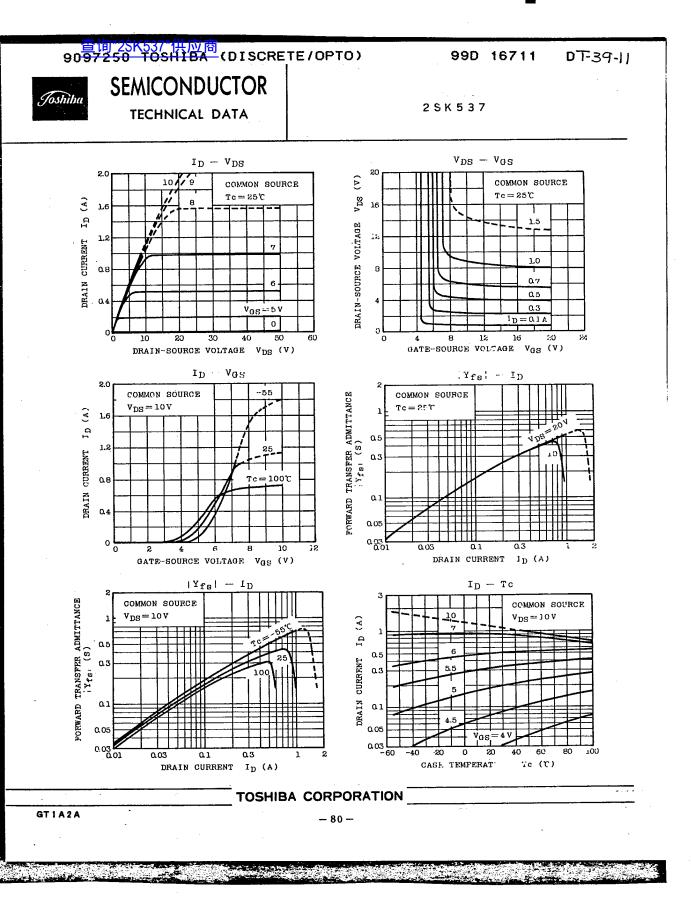
# TOSHIBA {DISCRETE/OPTO}

<del>vər</del> z:	sok spo sh						331	- 10	710	U	<b>Г-</b> 39-
	SEMIC	CON	DUCT	OR	TOS	HIBA F	IELD EFF	ECT TI	RANSIS	TOR	
					2 S K 5 3 7						
					SILICON N CHANNEL MOS TYPE						
	· · · · · · · · · · · · · · · · · · ·						INDU	ISTRIA	L APPL	ICATION	15
HIGH SPEED, HIGH VOLTAGE SWITCHING APPLI								Unit in mm			
SWITCHING REGULATOR AND MOTOR DRIVE A					ICATIONS.		103MAX. Ø36±02				
FEATUR						ľĂ	ナー	- <u></u> - 1	111		
. High Breakdown Voltage				: V <sub>(E</sub>	.X			53MAX			
. High Forward Transfer Admittance											
. Low Leakage Current : I <sub>GSS</sub> =±100nA(Max.					) @VGS=120V			╌┖┰╽╴╽	╶╢┚╌╴		
IDSS=300#A(Max.) • Enhancement-Mode : Vth=1.5~3.5V @									í	NIN.	
. Ennar	icement-Mod	ie	: vtn=1.:	o∼3.5v @	TD=TWY		<u>1.6 MAX</u>	╘╍╢╾║		301	
***	DATINCE	(T	° د )				<u>a</u>	76	ļ		
IAXIIIUM RATINGS (Ta=25°C) CHARACTERISTIC				SYMBOL	RATING	UNIT	1 _2	.54	2.54	MAX.	
Drain-Source Voltage			VDSX	900	V	12 12					
Gate-Source Voltage			VGSS	±20	v						
		-8-	DC	VGSS 1 <sub>D</sub>	1		╢ ╄──		<b>.</b>	1 1	
Drain (	Current	⊢	Pulse	I <sub>DP</sub>	3	A	13	. GATE . DRAIN	(HEAT	SINK)	
Drain Power Dissipation						3	3. SOURCE				
(Tc=2	(Tc=25°C)			PD	60	W	JEDEC TO-220AB   RIAJ SC-46				
	Channel Temperature			Tch	150	TOSHIBA 2-10A3B					
Storage Temperature Range			Tstg	-55~150 °C Weiget : 1.9g							
ELECTR	CAL CHARAC	TERIS	TICS (Ta=	=25°C)							
CHARACTERISTIC			SYMBOL	TEST C	ON	MIN.	TYP.	MAX.	UNIT		
Gate Leakage Current			I <sub>GSS</sub>	V <sub>GS</sub> =±20V,	V <sub>DS</sub> =0		-	-	±100	nA	
Drain Cut-off Current			I <sub>DSS</sub>	V <sub>DS</sub> =900V,			-	300	μA		
Drain-Source Breakdown Voltage			V(BR)DSS	Ip=10mA, V	GS=0		900	-	-	v	
Gate Threshold Voltage			Vth	V <sub>DS</sub> =10V, I	D=1mA		1.5	-	3.5	v	
Forward Transfer Admittance			۱Ÿfs۱	V <sub>DS</sub> =10V, I		0.2	0.4	-	S		
Drain-Source ON Resistance			R <sub>DS</sub> (ON)	I <sub>D</sub> =0.5A, V		-	8.2	9.0	ñ		
	Drain-Source ON Voltage			VDS(ON)	ID=1A, VGS		-	8.8	10	v	
Drain-S	Input Capacitance			Ciss	$V_{DS}=25V$ , V	f=1MHz	-	450	600	pF	
Input (		Reverse Transfer Capacitance			V <sub>DS</sub> =25V, V	f=1MHz	-	30	60	pF	
Input (	e Transfer	Output Capacitance			$v_{DS}=25V$ , V		-	70	120	pF	
Input ( Reverse		e				А ••• V <sub>OUT</sub>	30	90			
Input ( Reverse	Capacitanc	e Rise T	ime	tr			TUOVOUT				1
Input ( Reverse Output	Capacitanc R ng Time	Rise T Turn-o	n Time	t <sub>r</sub> ton			OVOUT	_	45	120	ns
Input ( Reverse Output	Capacitanc R Ing Time F	Rise T Turn-o Fall T	n Time		이 아니 '생 ㅋ		DD=200V	-	45 35 150	120 90 340	ns

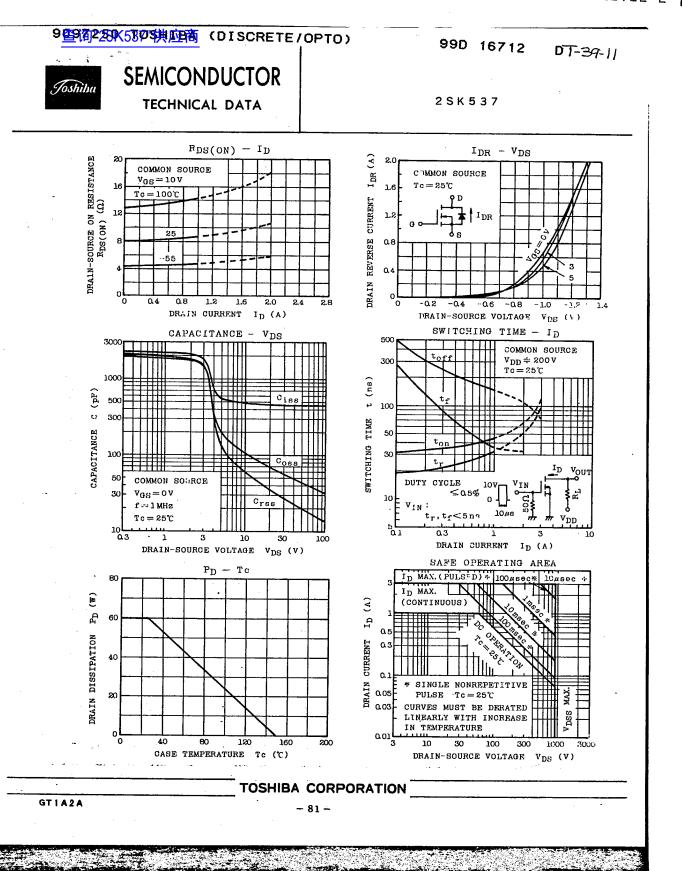
### TOSHIBA {DISCRETE/OPTO}

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