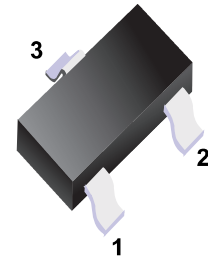
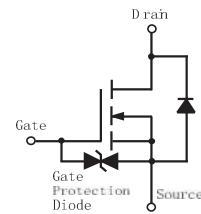


■ N-Channel Enhancement MOSFET
■ Features

- Low On-Resistance: $R_{DS(on)}$
- Low Gate Threshold Voltage
- Low Input Capacitance
- Fast Switching Speed
- Low Input/Output Leakage
- ESD Protected 2KV HBM



- 1.Gate
- 2.Source
- 3.Drain

■ Simplified outline(SOT-323)

■ Absolute Maximum Ratings $T_a=25^\circ\text{C}$

Parameter	Symbol	Rating	Unit	
Drain-Source Voltage	V_{DS}	60	V	
Gate-Source Voltage -Continuous	V_{GS}	± 20		
Drain Current	I_D	-Continuous (Note:1)	300	mA
		-Pulsed	800	
Power Dissipation (Note 1)	PD	350	mW	
Thermal Resistance,Junction- to-Ambient	R_{thJA}	357	$^\circ\text{C}/\text{W}$	
Junction Temperature	T_J	150	$^\circ\text{C}$	
Junction and Storage Temperature Range	T_{stg}	-55 to 150		

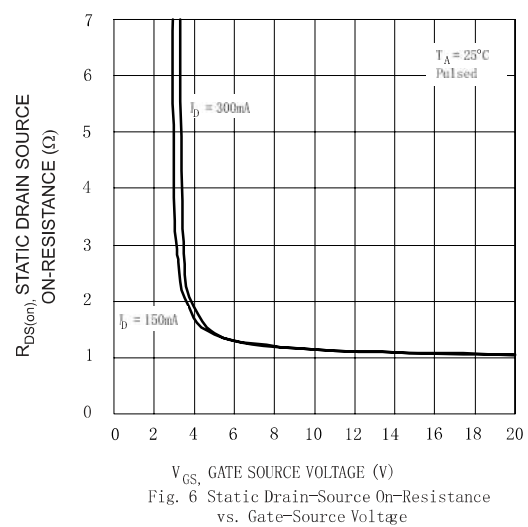
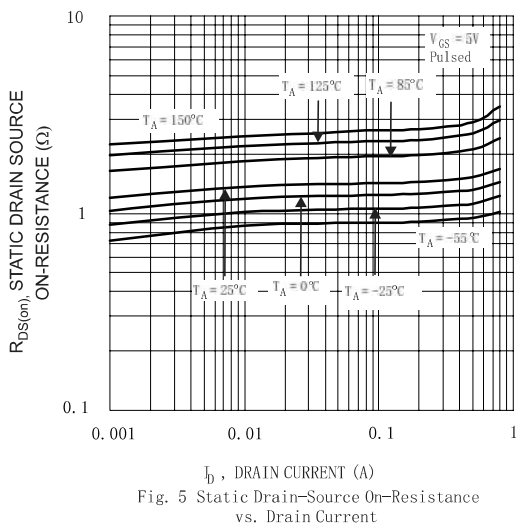
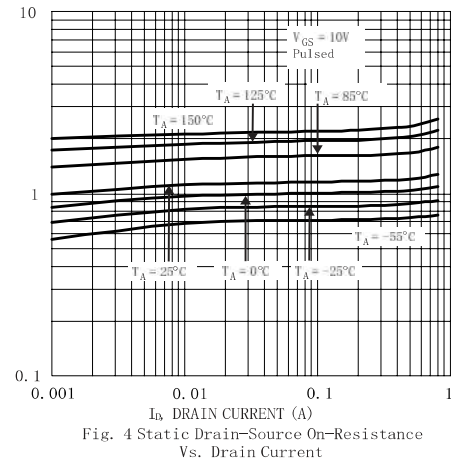
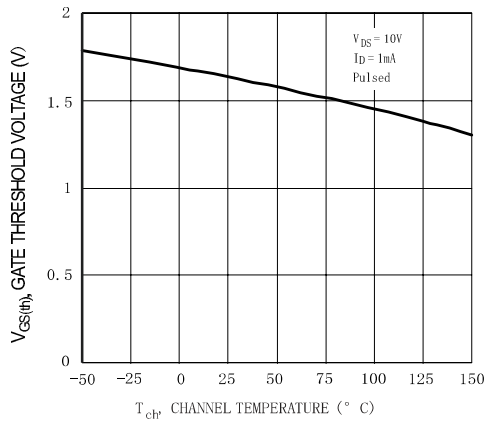
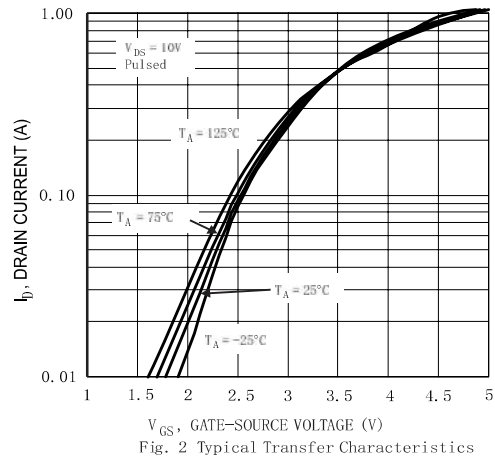
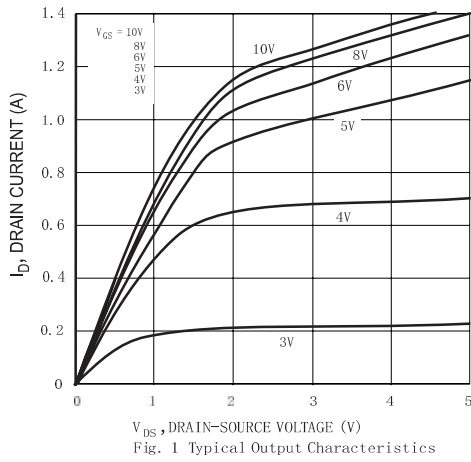
Notes: 1. Device mounted on FR-4 PCB.

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage (Note.2)	V_{DSS}	$I_D=100\ \mu\text{A}, V_{GS}=0\text{V}$	60			V
Zero Gate Voltage Drain Current (Note.2)	I_{DSS}	$V_{DS}=60\text{V}, V_{GS}=0\text{V}$			1	μA
Gate-Body Leakage Current (Note.2)	I_{GSS}	$V_{DS}=0\text{V}, V_{GS}=\pm 20\text{V}$			± 10	μA
Gate Threshold Voltage (Note.2)	$V_{GS(th)}$	$V_{DS} = 10\text{V}, I_D = 1\text{mA}$	1	1.6	2.5	V
Static Drain-Source On-Resistance (Note.2)	$R_{DS(on)}$	$V_{GS}=10\text{V}, I_D=500\text{mA}$			2	Ω
		$V_{GS}=10\text{V}, I_D=50\text{mA}$			3	
Forward Transfer Admittance (Note.2)	$ Y_{fs} $	$V_{GS}=10\text{V}, I_D=200\text{mA}$	80			ms
Input Capacitance	C_{iss}	$V_{GS}=0\text{V}, V_{DS}=25\text{V}, f=1\text{MHz}$			50	pF
Output Capacitance	C_{oss}				25	
Reverse Transfer Capacitance	C_{rss}				5	
Total Gate Charge	Q_g	$V_{GS}=4.5\text{V}, V_{DS}=15\text{V}, I_D=200\text{mA}$			0.8	nC
Turn-On DelayTime	$t_{d(on)}$	$I_D=200\text{mA}, V_{DS}=30\text{V}, R_G=10\Omega, V_{GEN}=10\text{V}, R_L=150\Omega$			20	ns
Turn-Off DelayTime	$t_{d(off)}$				40	

Note: 2. Short duration test pulse used to minimize self-heating effect.

■ Typical Characteristics



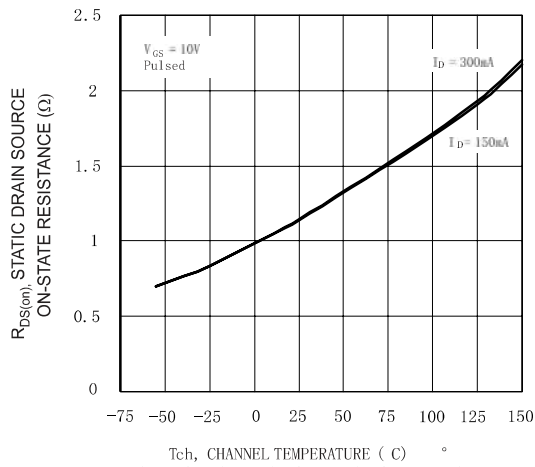


Fig. 7 Static Drain-Source On-State Resistance vs. Channel Temperature

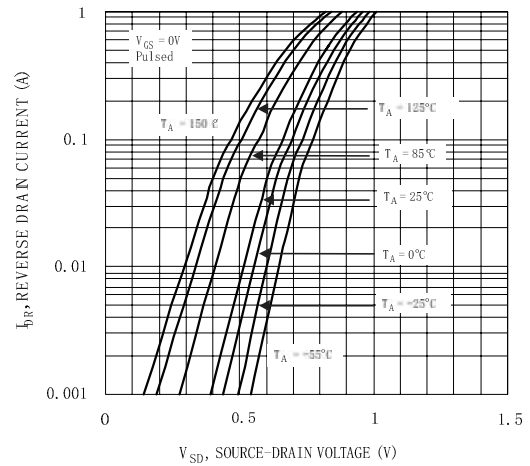


Fig. 8 Reverse Drain Current vs. Source-Drain Voltage

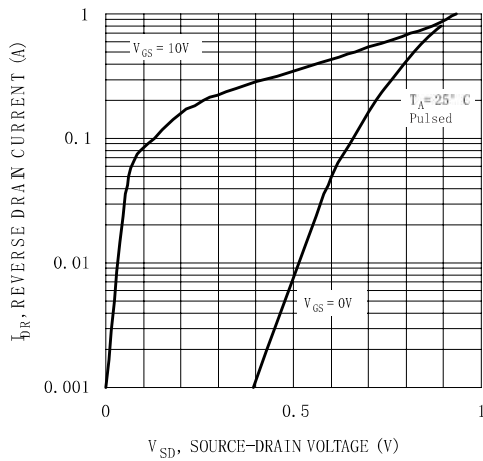


Fig. 9 Reverse Drain Current vs. Source-Drain Voltage

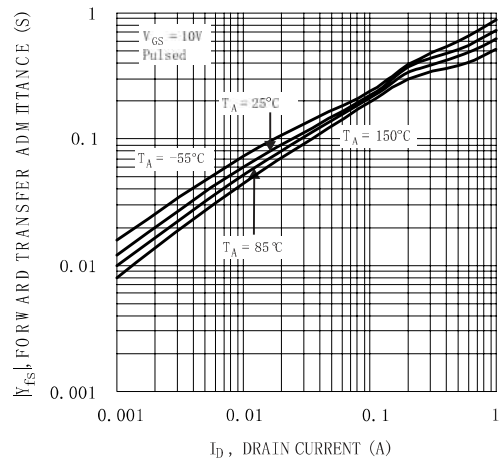
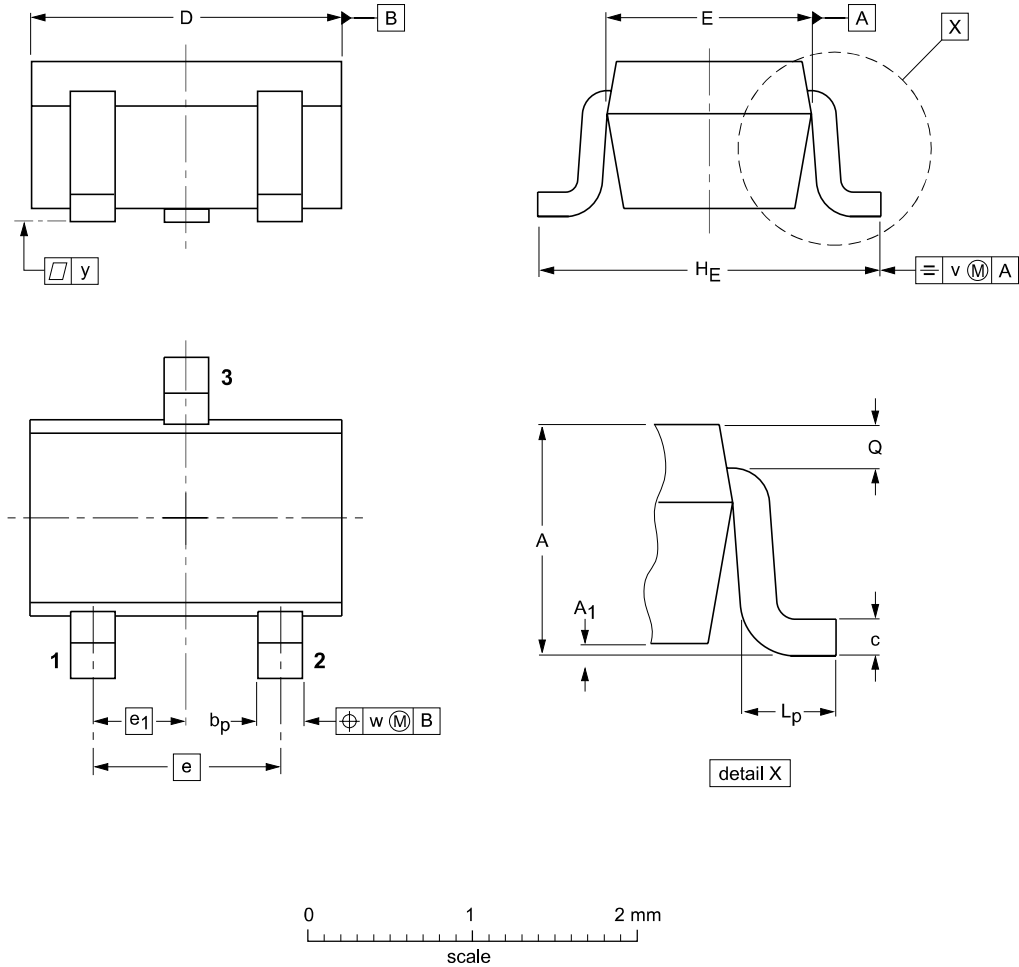


Fig. 10 Forward Transfer Admittance vs. Drain Current

Package Outline

SOT-323



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w
mm	1.1 0.8	0.1	0.4 0.3	0.25 0.10	2.2 1.8	1.35 1.15	1.3	0.65	2.2 2.0	0.45 0.15	0.23 0.13	0.2	0.2

Summary of Packing Options

Package	Package Description	Packing Quantity	Industry Standard
SOT-323	Tape/Reel, 7" reel	3000	EIA-481-1

单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)