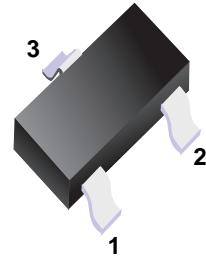
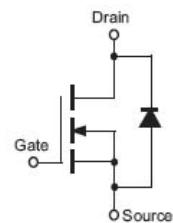


N-Channel MOSFET

 1.Gate
 2.Source
 3.Drain

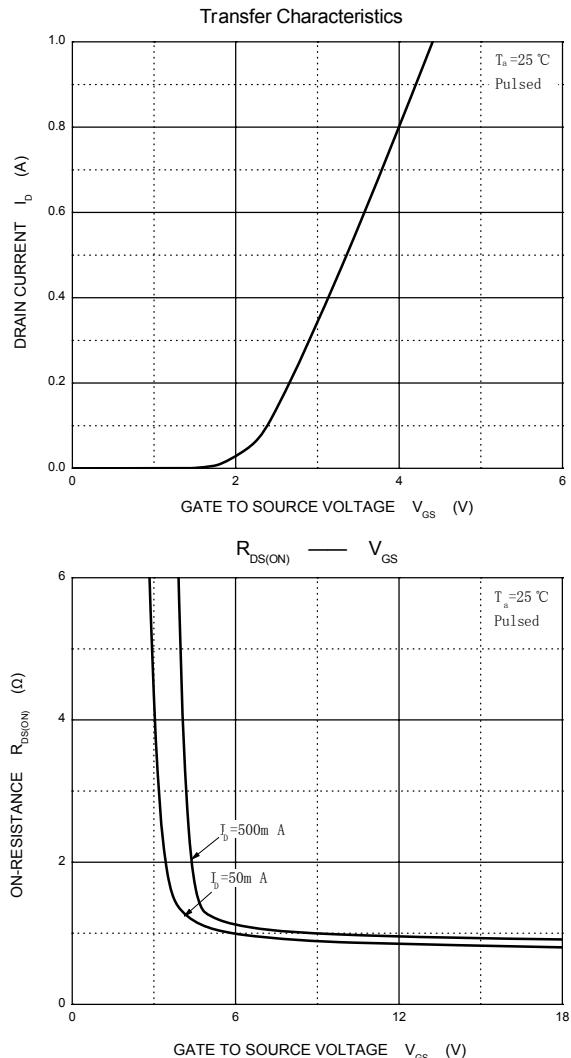
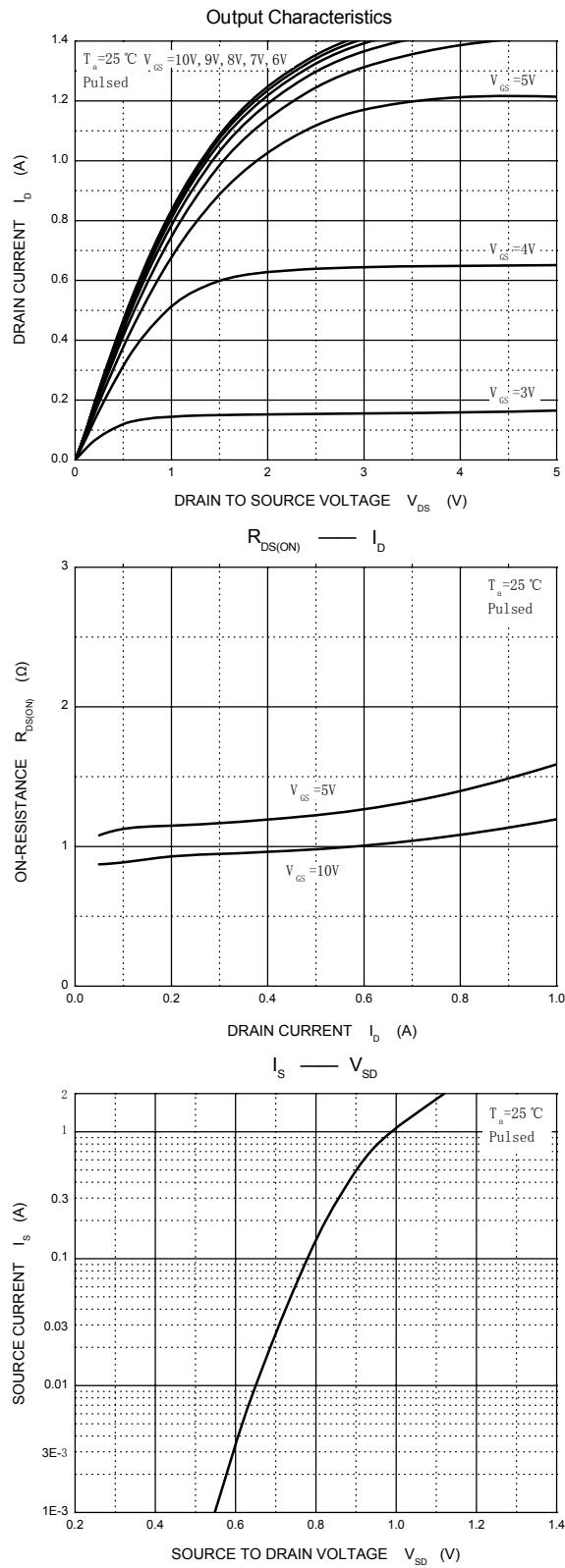
■ Simplified outline(SOT-523)

Absolute Maximum Ratings Ta = 25°C

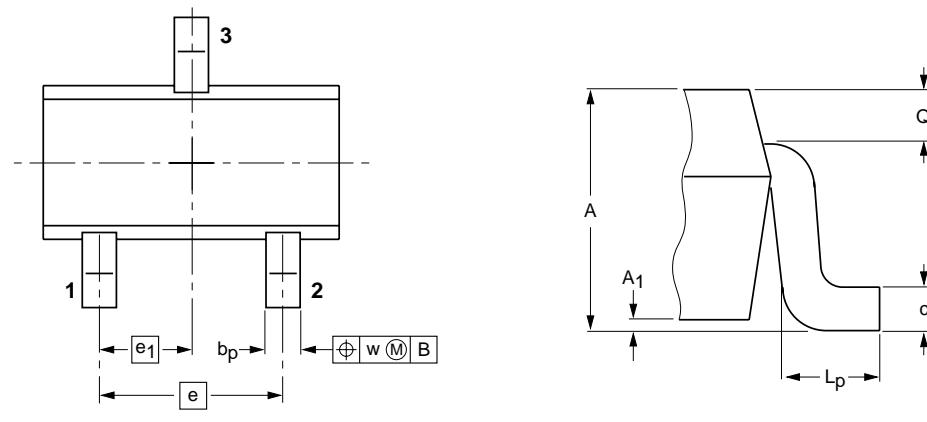
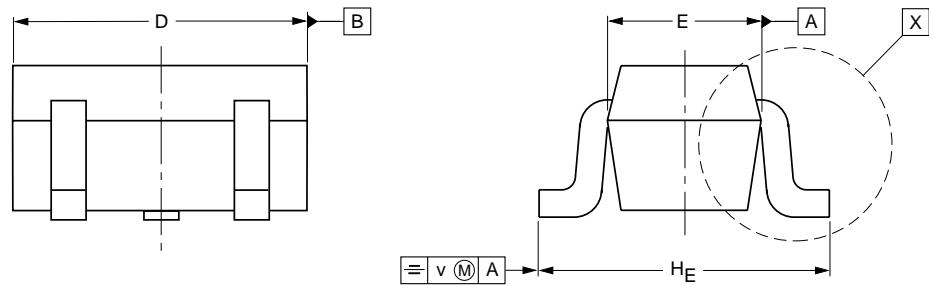
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	60	V
Gate-Source Voltage	V _{G_S}	±20	
Continuous Drain Current	I _D	115	mA
Power Dissipation	P _D	150	mW
Thermal Resistance.Junction- to-Ambient	R _{thJA}	833	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55 to 150	

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V _{DSS}	I _D =250 μA, V _{G_S} =0V	60			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =60V, V _{G_S} =0V			80	nA
Gate-Body Leakage Current	I _{GSS}	V _{DS} =0V, V _{G_S} =±20V			±80	nA
Gate Threshold Voltage	V _{G_S(th)}	V _{DS} =V _{G_S} , I _D =250 μA	1		2.5	V
Static Drain-Source On-Resistance	R _{D_S(ON)}	V _{G_S} =10V, I _D =500mA			5	Ω
		V _{G_S} =5V, I _D =50mA			7	
On State Drain Current	I _{D(ON)}	V _{G_S} =10V, V _{DS} =7V	500			mA
Forward Transconductance	g _{FS}	V _{DS} =10V, I _D =0.2A	80			mS
Input Capacitance	C _{iss}	V _{G_S} =0V, V _{DS} =25V, f=1MHz			50	pF
Output Capacitance	C _{oss}				25	
Reverse Transfer Capacitance	C _{rss}				5	
Turn-On DelayTime	t _{d(on)}	V _{DD} = 25V, I _D = 0.5A, V _{GEN} = 10V R _L = 50Ω, R _{GEN} = 25Ω			20	ns
Turn-Off DelayTime	t _{d(off)}				40	
Drain-source on-voltage	V _{D_S(ON)}	V _{G_S} =10V, I _D =500mA			3.75	V
		V _{G_S} =5V, I _D =50mA			0.375	
Diode Forward Voltage	V _{SD}	I _S =115mA, V _{G_S} =0 V	0.55		1.2	

■ Typical Characteristics



■ SOT-523


0 0.5 1 mm
scale

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	0.95 0.60	0.1	0.30 0.15	0.25 0.10	1.8 1.4	0.9 0.7	1	0.5	1.75 1.45	0.45 0.15	0.23 0.13	0.2	0.2