

● Static Parameter Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	Condition	UNIT	Min	Typ	Max
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V, I_D=250\mu A$	V	30	—	—
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=30V, V_{GS}=0V$	μA	—	—	1.0
Gate-Body Leakage Current	I_{GSS}	$V_{GS}=\pm 20V, V_{DS}=0V$	nA	—	—	± 100
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=250\mu A$	V	1	1.5	2.2
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10V, I_D=3.6A$	m Ω	—	37	60
		$V_{GS}=4.5V, I_D=3A$		—	57	75
Diode Forward Voltage	V_{SD}	$I_S=3.6A, V_{GS}=0V$	V	—	—	1.2

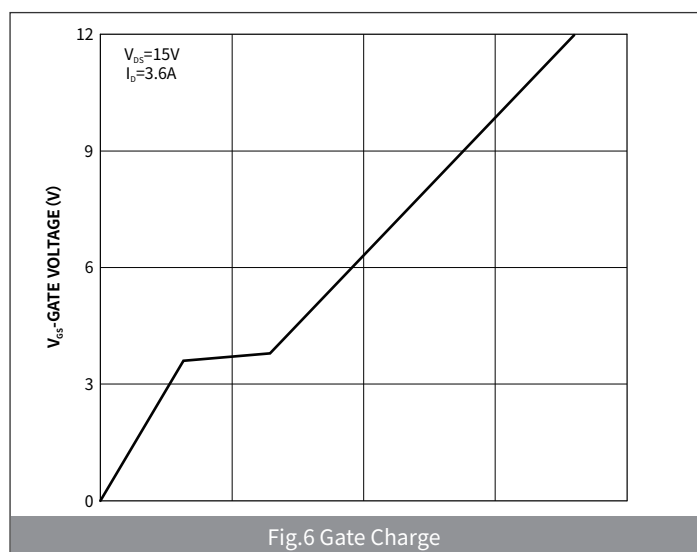
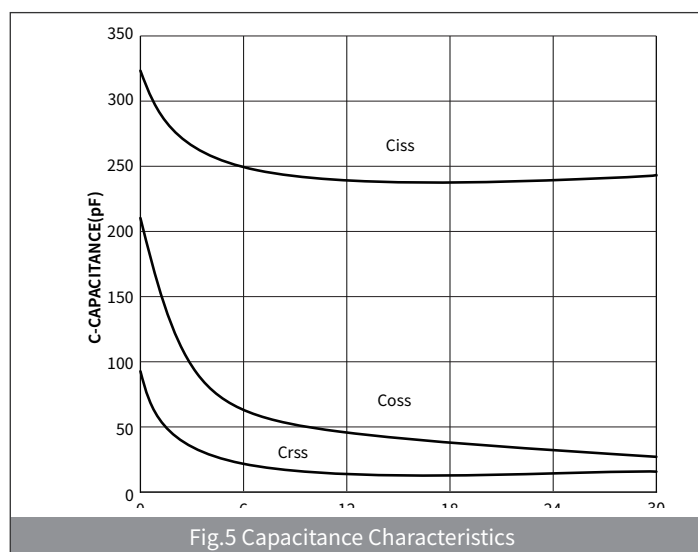
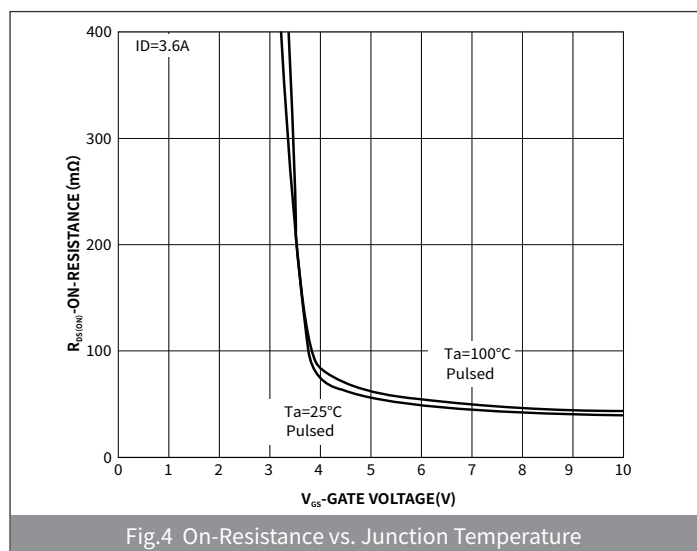
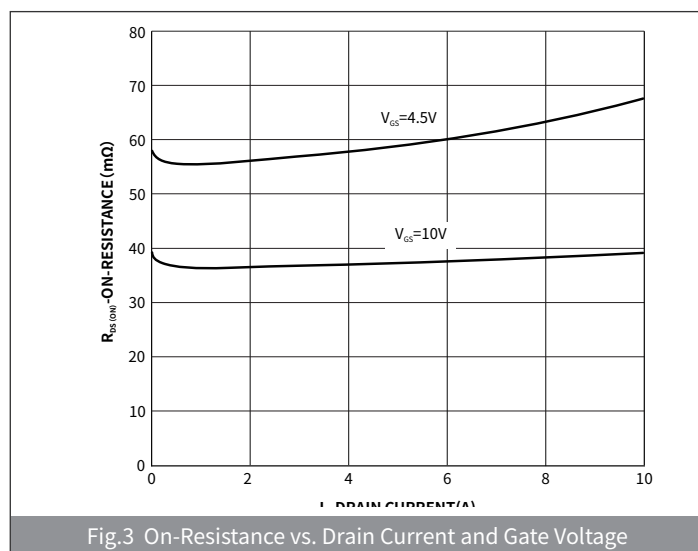
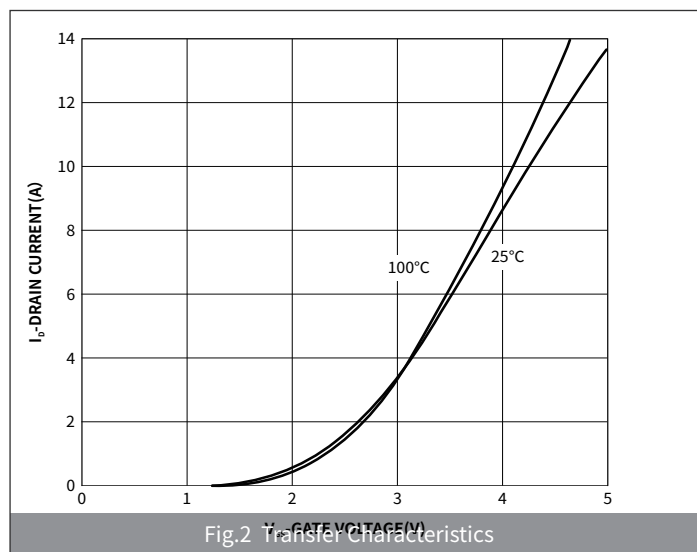
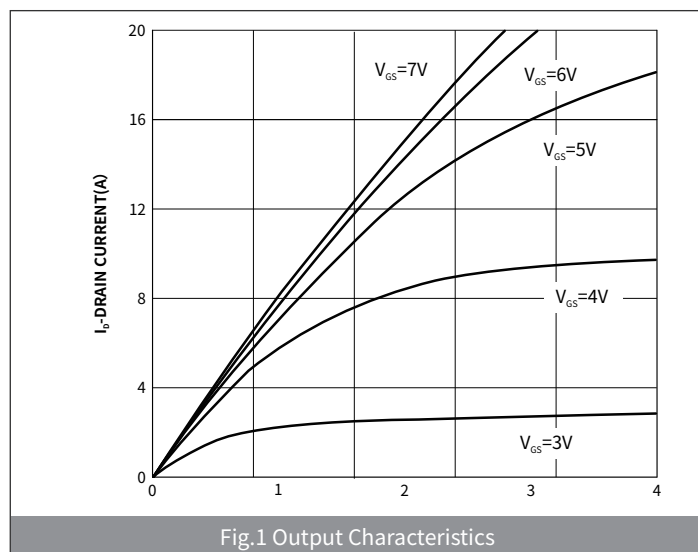
● Dynamic Parameters (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	Condition	UNIT	Min	Typ	Max
Input Capacitance	C_{iss}	$V_{DS}=15V, V_{GS}=0V, f=1MHz$	pF	—	234	—
Output Capacitance	C_{oss}			—	47	—
Reverse Transfer Capacitance	C_{rss}			—	17	—

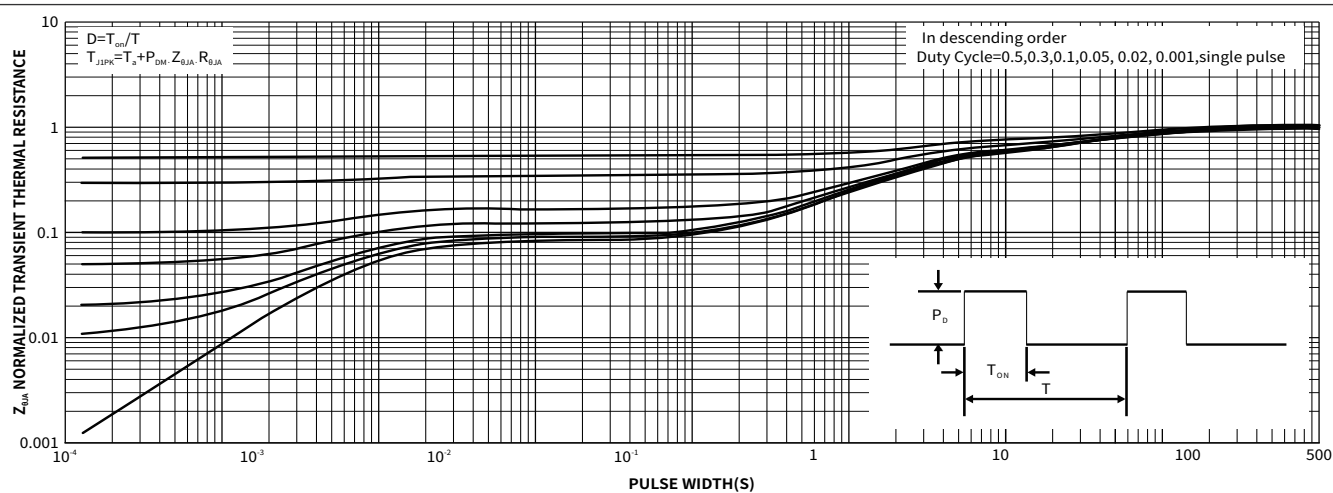
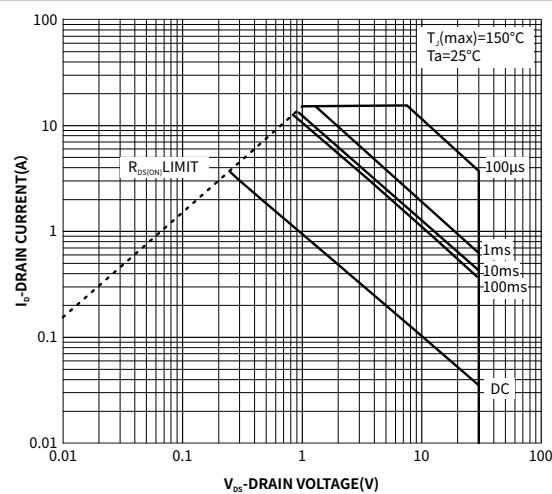
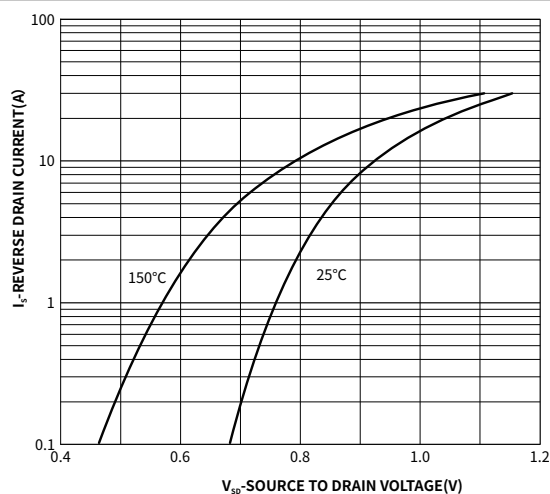
● Switching Parameters (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	Condition	UNIT	Min	Typ	Max
Total Gate Charge	Q_g	$V_{GS}=10V, V_{DS}=15V, I_D=3.6A$	nC	—	6.08	—
Gate-Source Charge	Q_{gs}			—	1.26	—
Gate-Drain Charge	Q_{gd}			—	1.32	—
Reverse Recovery Charge	Q_{rr}	$I_F=3.6A, di/dt=100A/us$	nC	—	1.66	—
Reverse Recovery Time	t_{rr}		ns	—	17.33	—
Turn-on Delay Time	$t_{D(on)}$	$V_{GS}=10V, V_{DS}=15V, R_L=4.1\Omega$ $R_{GEN}=3\Omega$	ns	—	3.8	—
Turn-on Rise Time	t_r			—	23.2	—
Turn-off Delay Time	$t_{D(off)}$			—	7	—
Turn-off fall Time	t_f			—	18.6	—

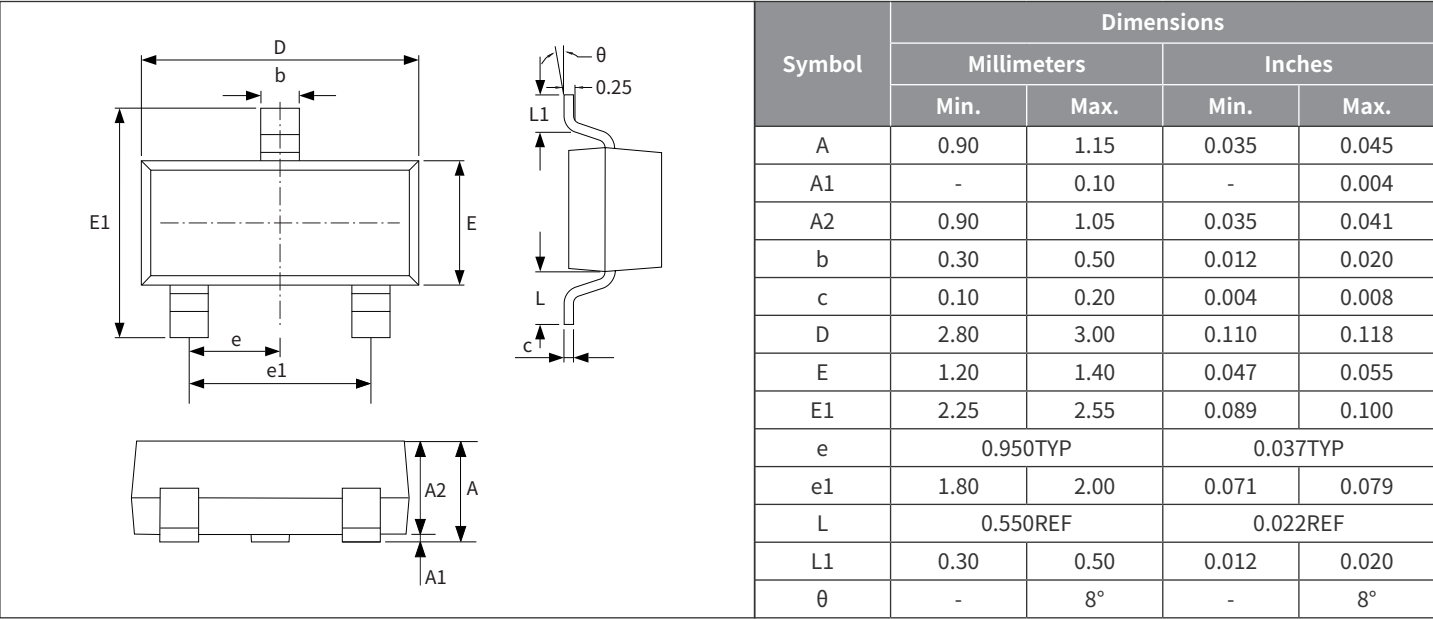
● Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)



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● Package Outline Dimensions (SOT-23)



● Suggested Pad Layout

