

Rev.A Oct.-2022

Parameter		Symbol	Rating	Unit
Drain–Source Voltage		V_{DSS}	-60	V
Gate–Body Leakage Voltage		V_{GSS}	± 20	V
Drain Current – Continuous		I_D	-2.3	A
Pulsed Drain Current		I_{DM}	-9	A
Power Dissipation		P_D	1.25	W
Operating and Storage Temperature Range		T_J, T_{STG}	-55 150	
Maximum Junction-to-Ambient	t 10s	R_{JA}	72	/W
Maximum Junction-to-Ambient	Steady-State		100	/W
Maximum Junction-to-Lead	Steady-State	R_{JL}	64	/W

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain–Source Breakdown Voltage	$V_{(BR)DSS}$	$V_{GS}=0V$ $I_D=-250\mu A$	-60	-75		V
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=-250\mu A$	-1	-1.9	-2.5	V
Static Drain–Source On–Resistance	$R_{DS(on)}$	$V_{GS}=-10V$ $I_D=-2A$		135	150	m Ω
		$V_{GS}=-4.5V$ $I_D=-1A$		160	200	m Ω
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=-60V$ $V_{GS}=0V$			-1.0	μA
Gate–Body leakage current	I_{GSS}	$V_{GS}=\pm 20V$ $V_{DS}=0V$			± 100	nA
Drain–Source Diode Forward Voltage	V_{SD}	$V_{GS}=0V$ $I_S=-1A$ $T_J=25$			-1.2	V
Gate resistance	R_g	f=1MHz		6.5		Ω
Input Capacitance	C_{iss}	$V_{DS}=-25V$ $V_{GS}=0V$ f=1.0MHz		800		pF
Output Capacitance	C_{oss}			45		
Reverse Transfer Capacitance	C_{rss}			35		
Total Gate Charge	$Q_{g(-10V)}$	$V_{DS}=-10V$ $V_{GS}=-10.0V$ $I_D=-2A$		12.3		nC
Total Gate Charge	$Q_{g(-4.5V)}$			6.3		
Gate-to-Source Charge	Q_{gs}			1.6		
Gate-to-Drain Charge	Q_{gd}			2.4		
Turn–On Delay Time	$t_{d(on)}$	$V_{DS}=-10V$ $V_{GS}=-10V$ $R_L=5.4\Omega$ $R_{GEN}=3\Omega$		12		ns
Turn–On Rise Time	t_r			20		
Turn–Off Delay Time	$t_{d(off)}$			20		
Turn–Off Fall Time	t_f			25		

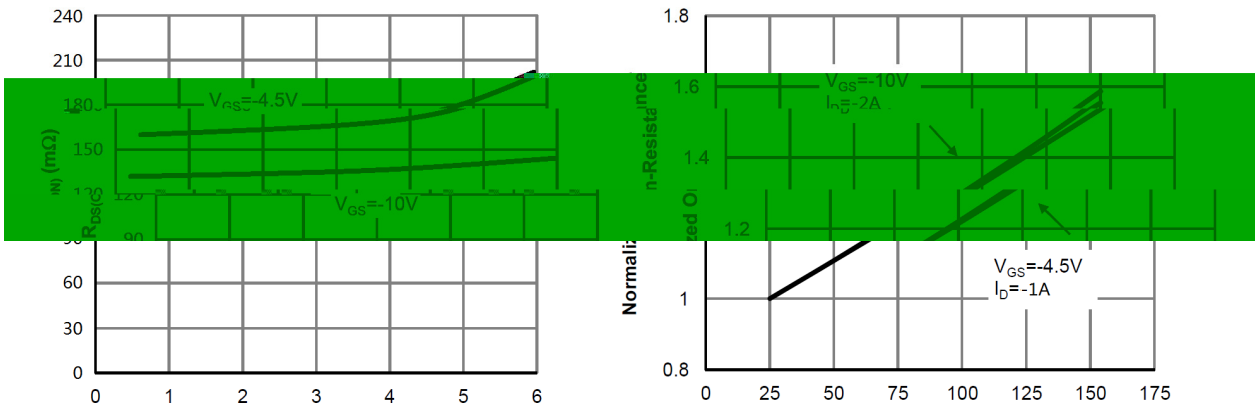
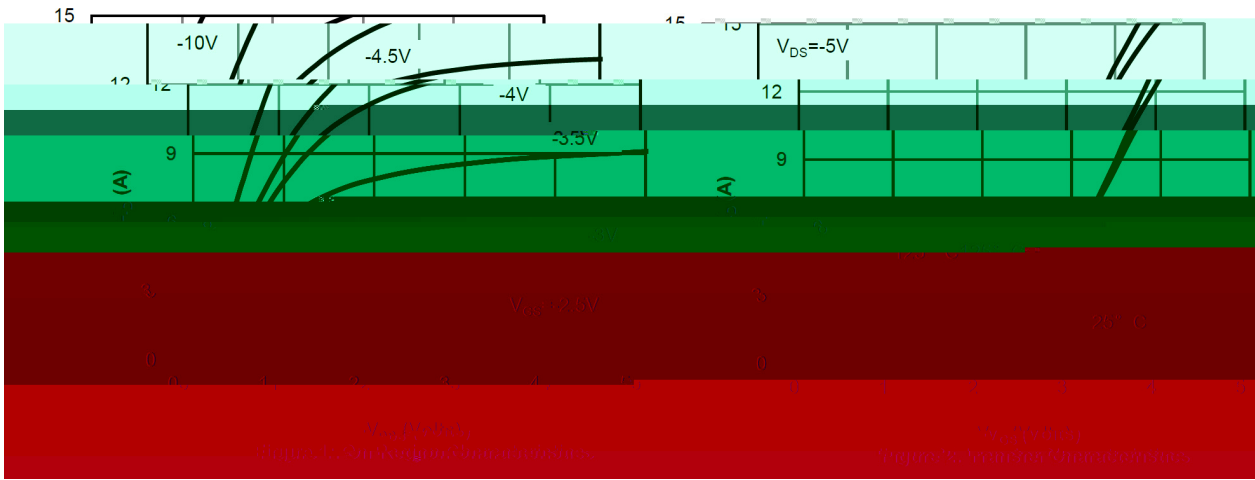
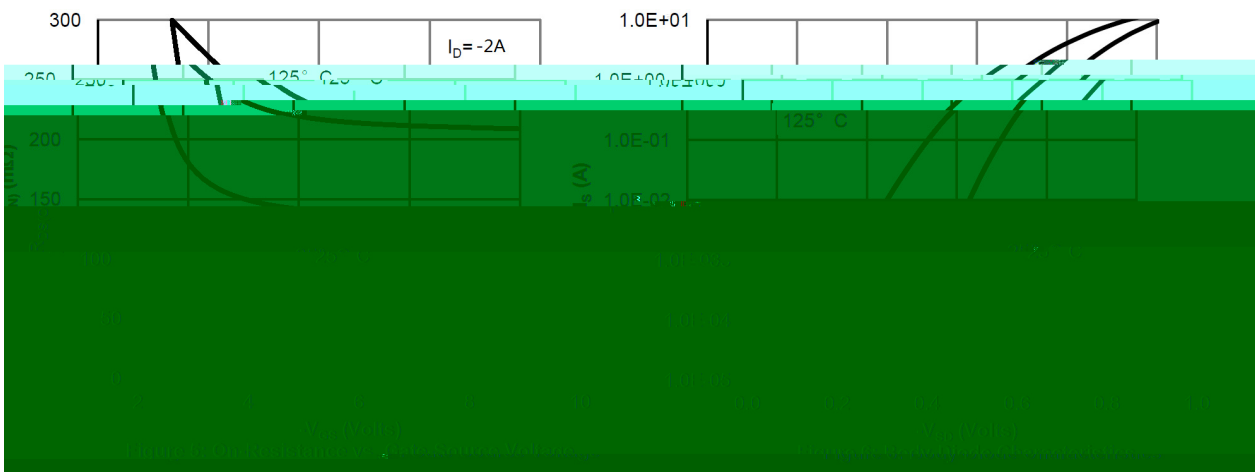
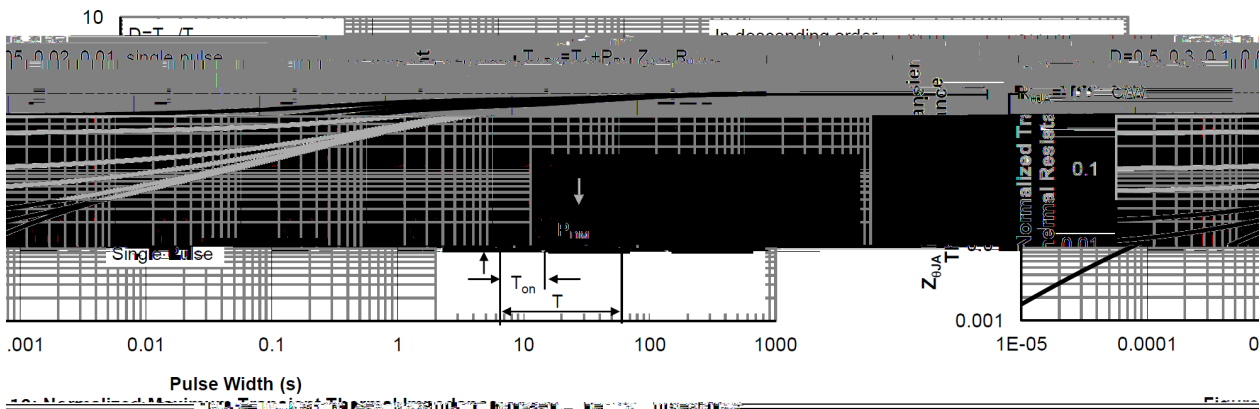
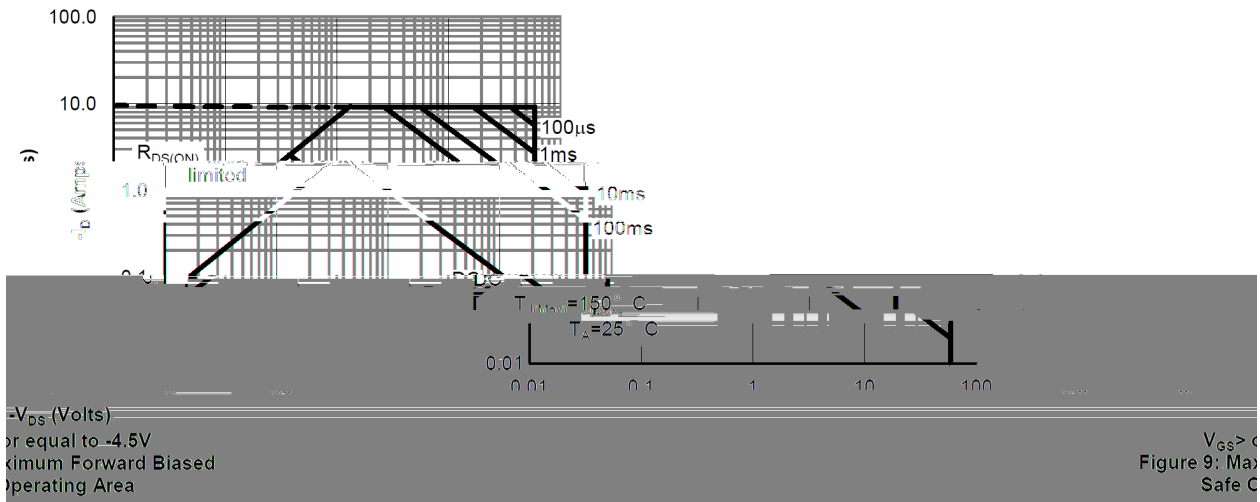
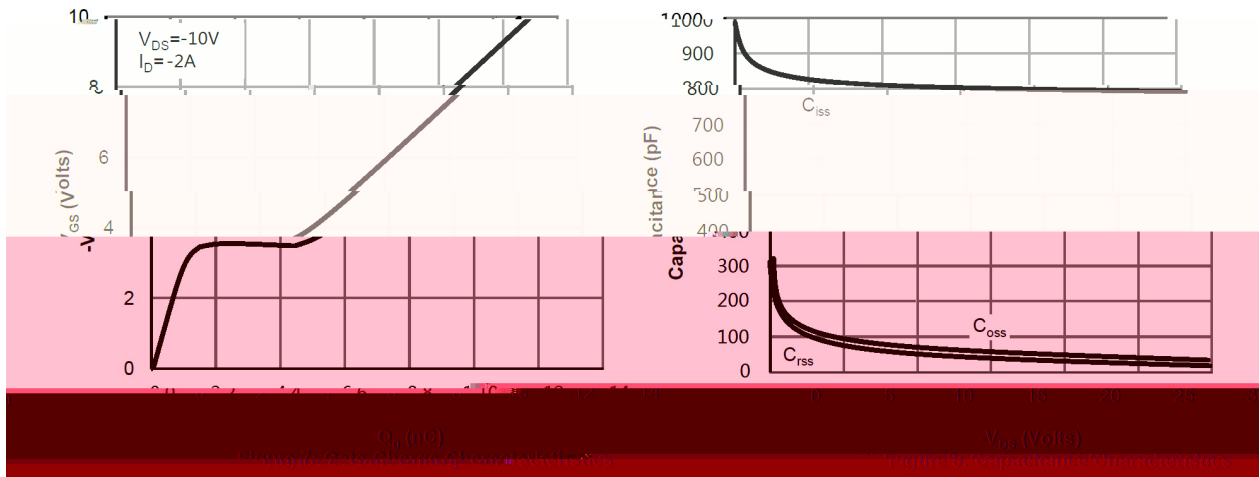
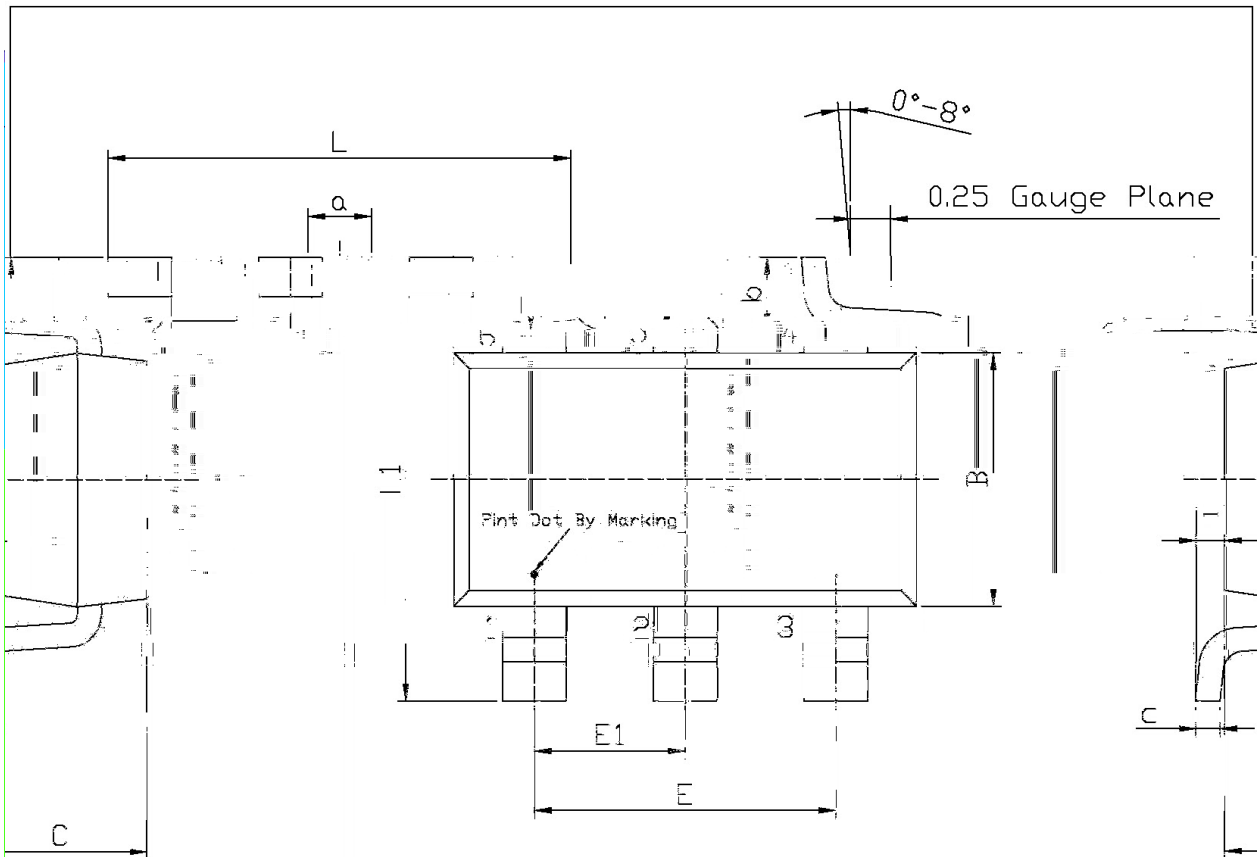


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

Figure 4: On-Resistance vs. Junction Temperature





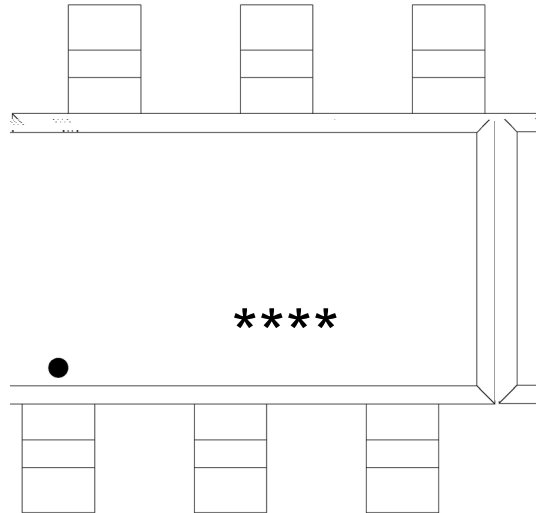


Unit: mm

Millimeters
Max
1.05
0.50
0.20
0.55
0.15

Symbol	Dimensions In Millimeters		Symbol	Dimensions In	
	Min	Max		Min	Max
L	2.82	3.32	E1	0.85	
B	1.50	1.70	a	0.35	
C	0.90	1.30	c	0.10	
L1	2.60	3.00	b	0.35	
E	1.80	2.00	F	0	

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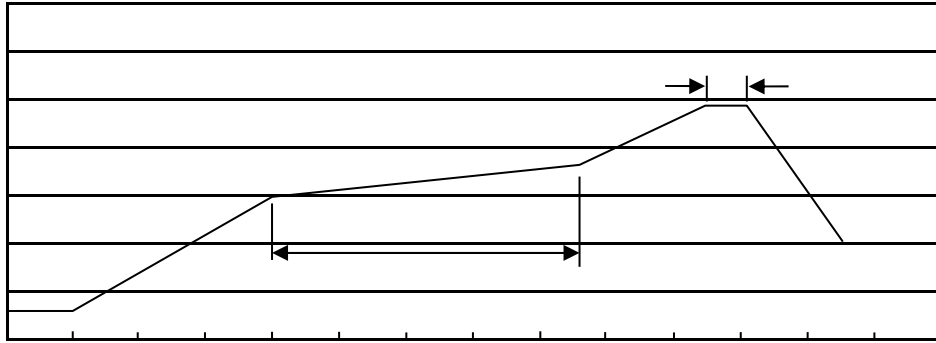
2P06:

****:

Note:

2P06 Product Type

****: Company Code

Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- 1 150 180 60 90sec;
- 2 245±5 5±0.5sec;
- 3 2 10 /sec.

- 1.Preheating:150~180 , Time:60~90sec.
- 2.Peak Temp.:245±5 , Duration:5± 0.5sec.
3. Cooling Speed: 2~10 /sec.

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units				Dimension		(unit mm ³)