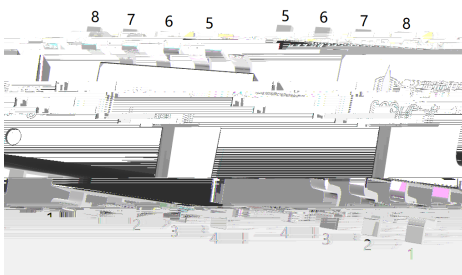
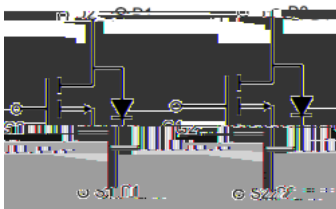


Rev.A Mar.-2023

SOP-8 P
Dual P-CHANNEL MOSFET in a SOP-8 Plastic Package .

Dual P-CHANNEL
VDS(V)=-30V
ID=-7.1A
RDS(ON)<22m (VGS=-10V)
RDS(ON)<35m (VGS=-4.5V)
HF Product.

Power Management in Notebook Computer, Portable Equipment and Battery Powered Systems.



PIN1	S1	PIN 2	G1	PIN 3	S2	PIN 4	G2
PIN 5	D2	PIN 6	D2	PIN 7	D1	PIN 8	D1

See Marking Instructions.

Parameter	Symbol	Rating	Unit	
Drain-Source Voltage	V_{DS}	-30	V	
Drain Current - Continuous	I_D	-7.1	A	
Drain Current – Pulsed	I_{DM}	-40	A	
Gate-Source Voltage	V_{GS}	± 20	V	
Power Dissipation	P_D	2	W	
Single Pulse Avalanche Energy(L=0.5mH)	E_{AS}	152	mJ	
Avalanche Current(L=0.5mH)	I_{AS}	-19.5	A	
Junction and Storage Temperature Range	T_j, T_{stg}	-55 to 150		
Thermal resistance, junction - ambient	t 10s	R_{JA}	62.5	/ W
	Steady-State		90	
Thermal resistance, junction - Lead	Steady-State	R_{JL}	40	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$I_D=-250\mu A$ $V_{GS}=0V$	-30			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=-30V$ $V_{GS}=0V$			-1	μA
Gate-Body leakage current	I_{GSS}	$V_{DS}=0V,$ $V_{GS}=\pm 20V$			± 100	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=-250\mu A$	-1	-1.3	-2.5	V
Static Drain-Source On-Resistance	$R_{DS(ON)}$	$V_{GS}=-10V,$ $I_D=-20A$		20	22	m
		$V_{GS}=-4.5V,$ $I_D=-10A$		28	35	
Diode Forward Voltage	V_{SD}	$I_S=-1A,$ $V_{GS}=0V$			-1.2	V
Input Capacitance	C_{iss}	$V_{DS}=-25V$ V				

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=-10V$ $V_{DS}=-15V$ $R_L=0.75$ $R_{GEN}=3$		11		ns
Turn-On Rise Time	t_r			5.6		
Turn-Off Delay Time	$t_{d(off)}$			28		
Turn-Off Fall Time	t_f			11		

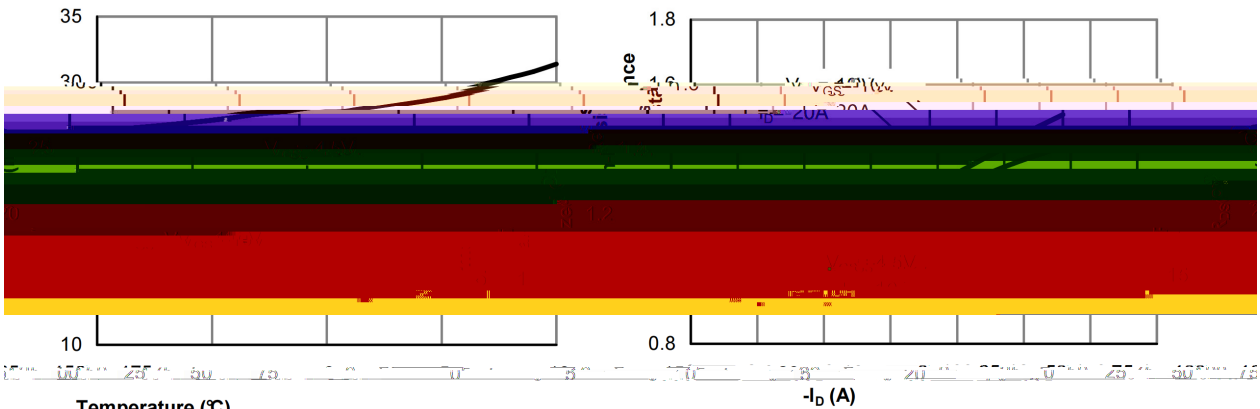
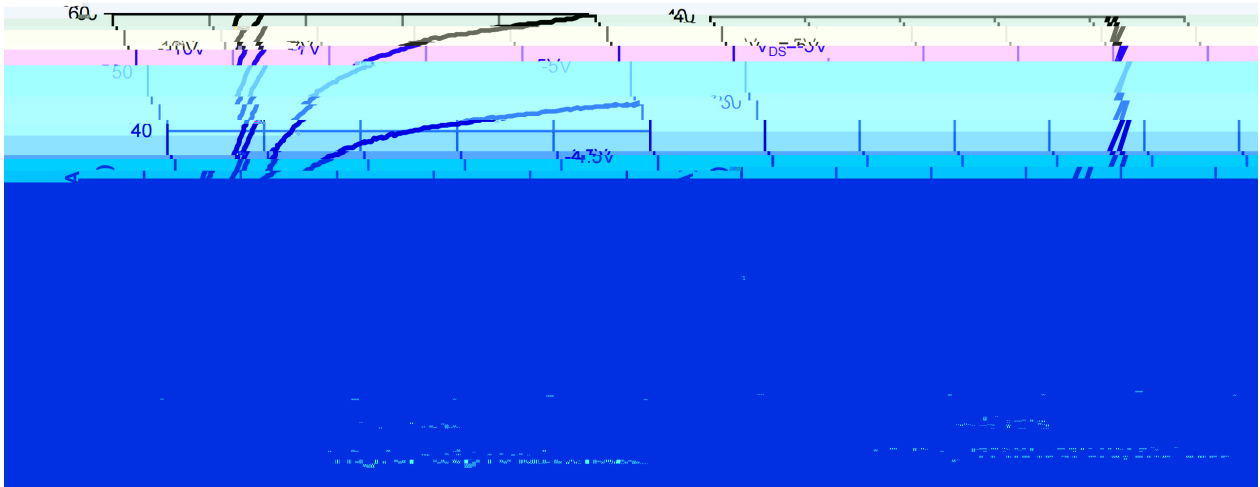


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

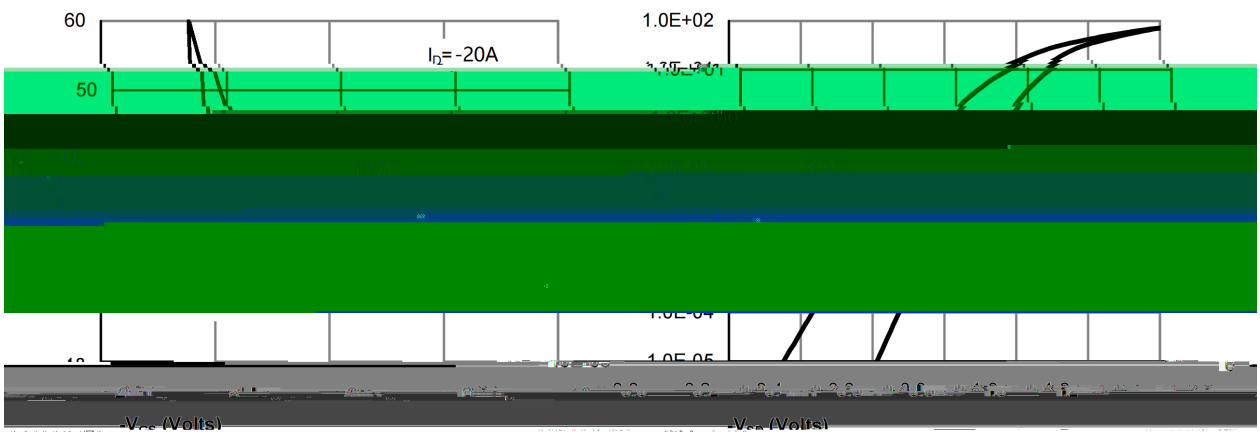
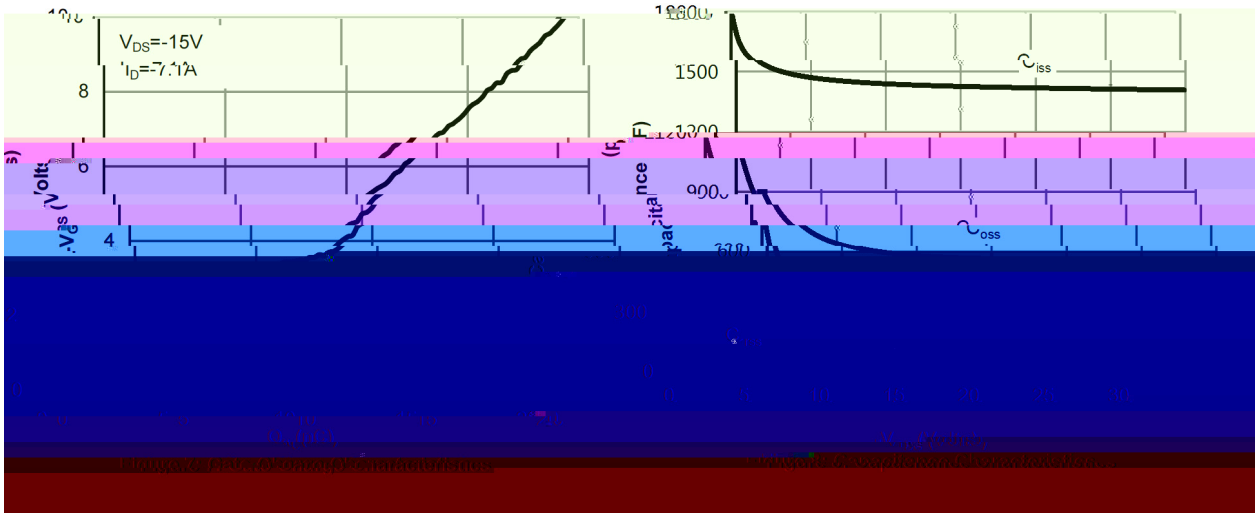
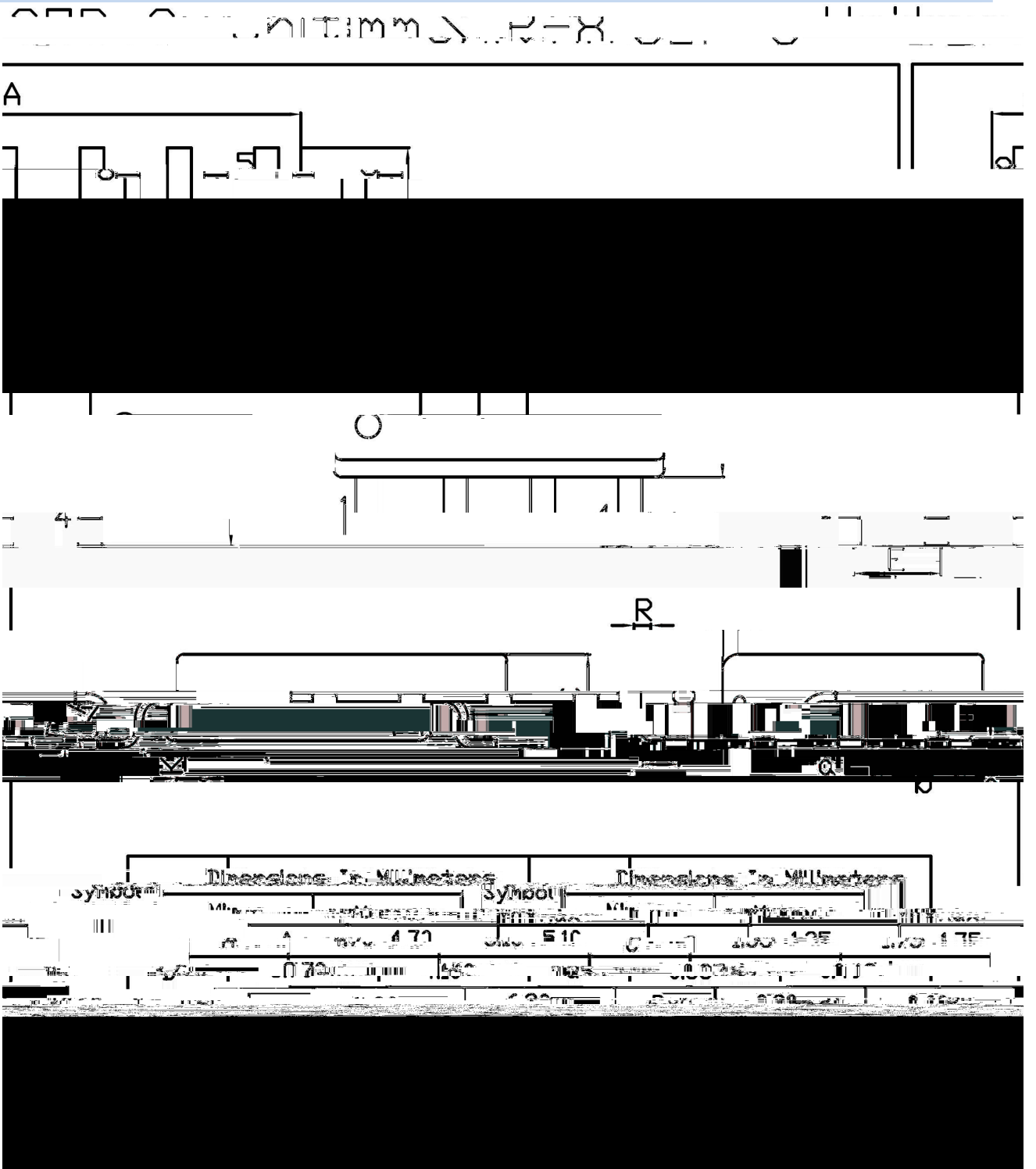


Figure 4: On-Resistance vs. Drain Current and Drain Voltage

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Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

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

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type

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