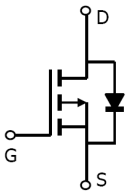
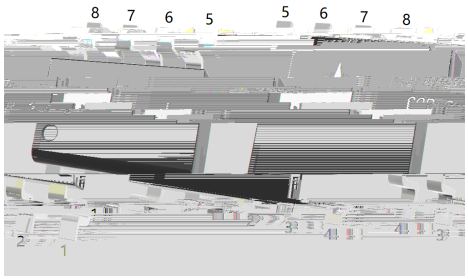
SOP-8 P MOS
P-Channel Enhancement Mode Field Effect Transistor in a SOP-8 Plastic Package.

V_{DS} (V) = -40V I_D = -6.8A (V_{GS} = ± 20V)
$R_{DS(ON)}$@-10V≤35mΩ(Typ.33mΩ)
$R_{DS(ON)}$@-4.5V≤60mΩ(Typ.40mΩ)
HF Product.

Power Management in Notebook computer, Portable Equipment and Battery powered systems.





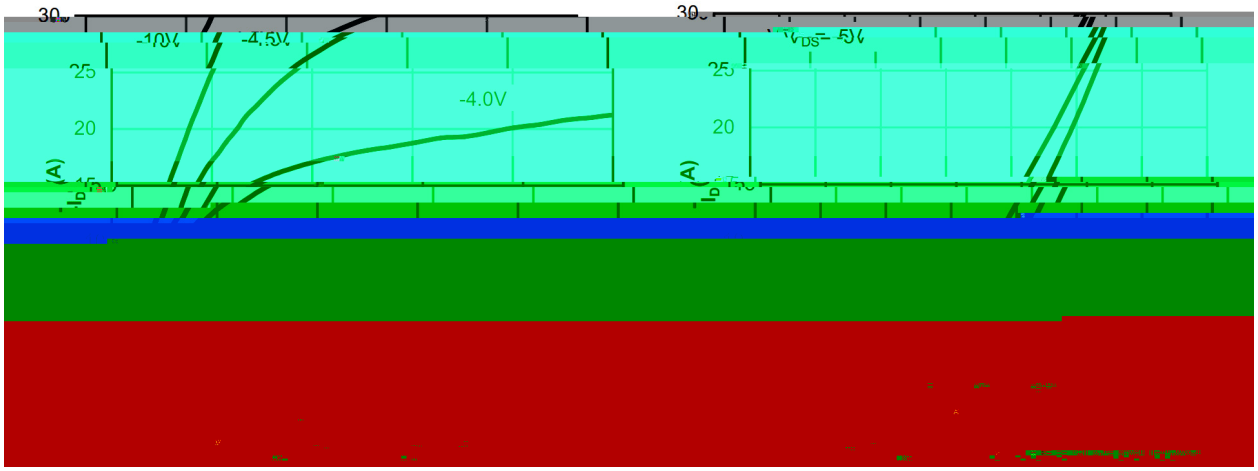
PIN1 S PIN 2 S PIN 3 S PIN 4 G
PIN 5 D PIN 6 D PIN 7 D PIN 8 D

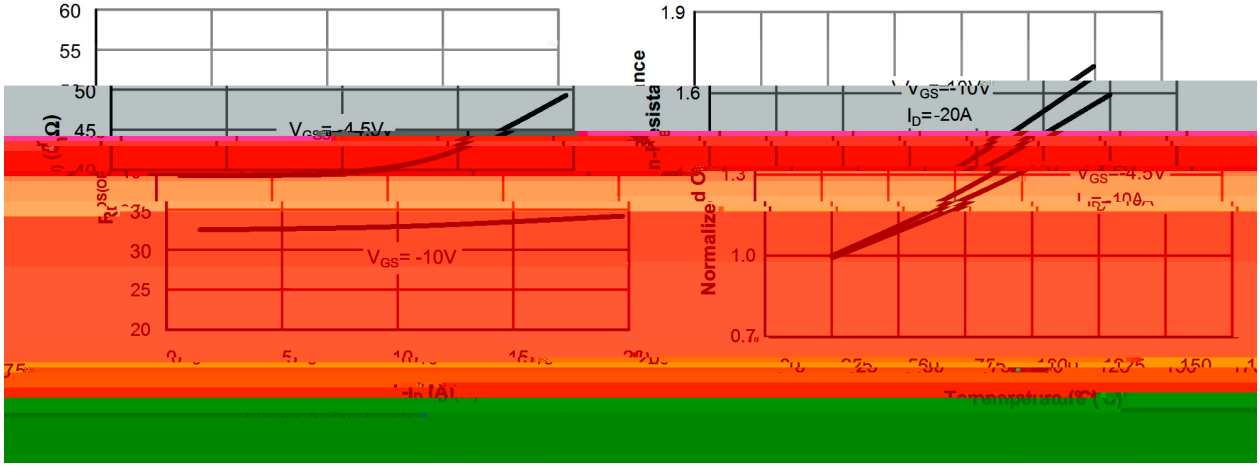
See Marking Instructions.

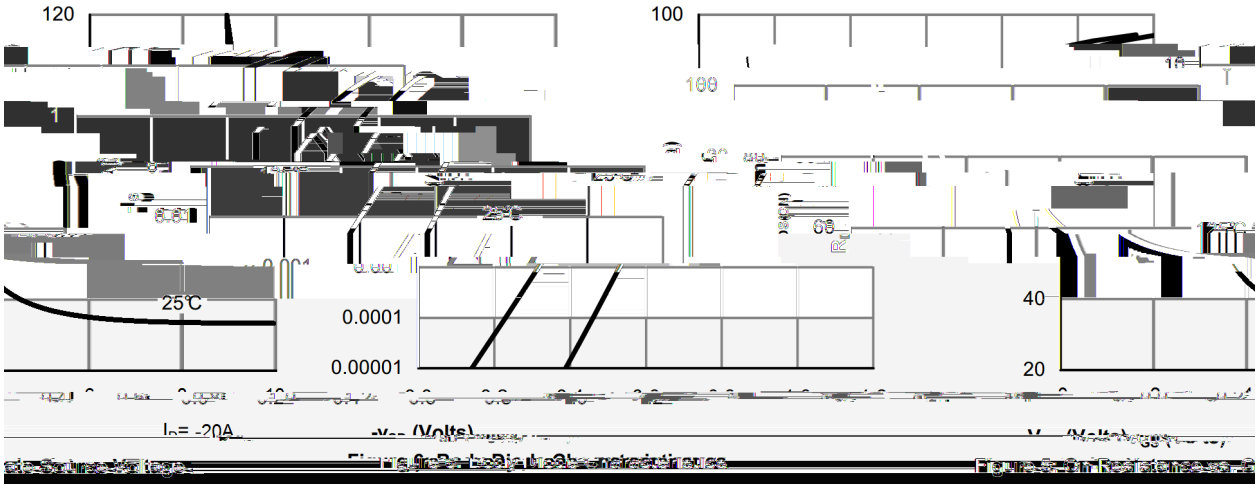
Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V_{DSS}	-40	V
Drain Current		I_D	-6.8	A
Drain Current - Pulsed		I_{DM}	-30	A
Gate-Source Voltage		V_{GS}	±20	V
Avalanche Current		I_{AS}	13	A
Single Pulsed Avalanche Energy L=0.5mH		E_{AS}	54	mJ
Power Dissipation		P_D	2.7	W
Storage Temperature Range		T_{stg}	-55 150	
Thermal Resistance-Junction to Ambient	t ≤ 10s	$R_{\theta JA}$	46	/W
	Steady-State		80	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V I_D=-250μA	-40	-46		V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=-40V V_{GS}=0V			1.0	μA
Gate-Body Leakage Current Forward	I_{GSS}	V_{GS}=±20V V_{DS}=0V			±0.1	μA
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=V_{GS} I_D=-250μA	-1.0	-1.4	-2.5	V
Static Drain-Source On-Resistance		R 10s 58.7404 Tm0 Tc0 Tw(D)Tj10.4958 498 r47998 18.0 Tc433603 Tm371470 Tc2.-20ATherma.2192f5(33195 =0V				

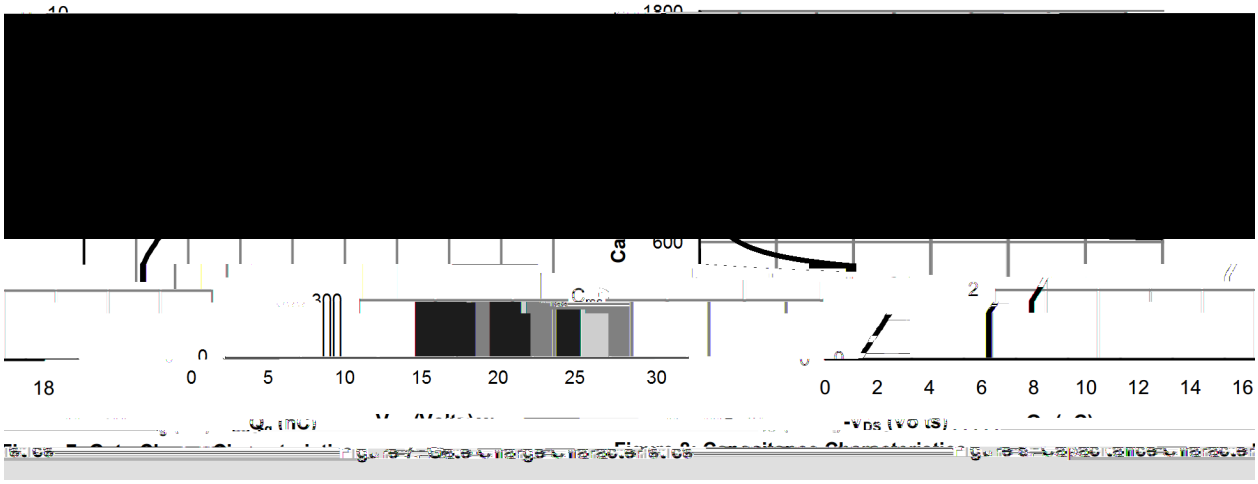
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	t					

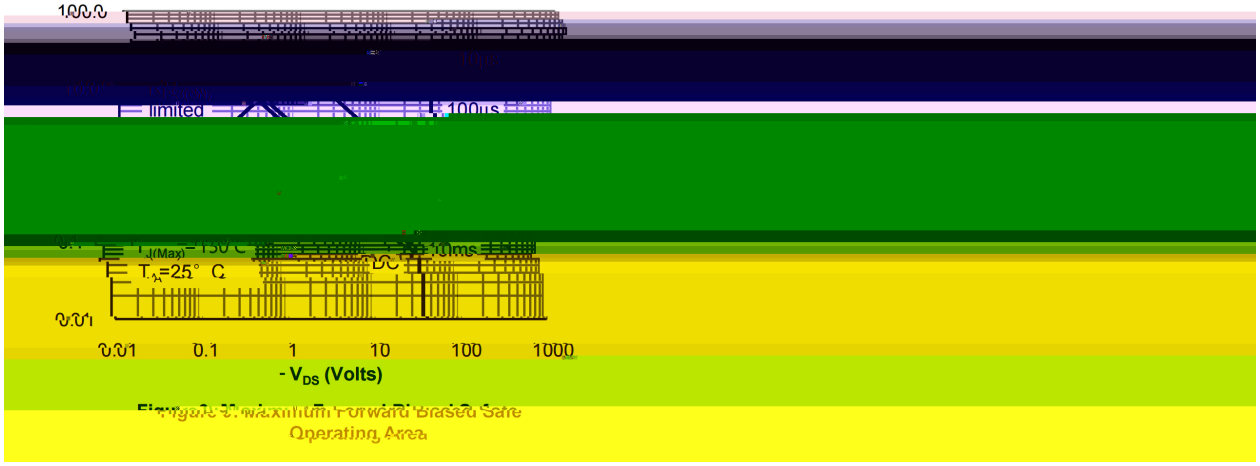

-10V
-4.5V
-4.0V
25
20
(A)


60
55
45
35
30
25
20
(Ω)
V_{GS}= -4.5V
V_{GS}= -10V
1.9
1.6
1.3
1.0
0.7
I_D=-20A
Normalized

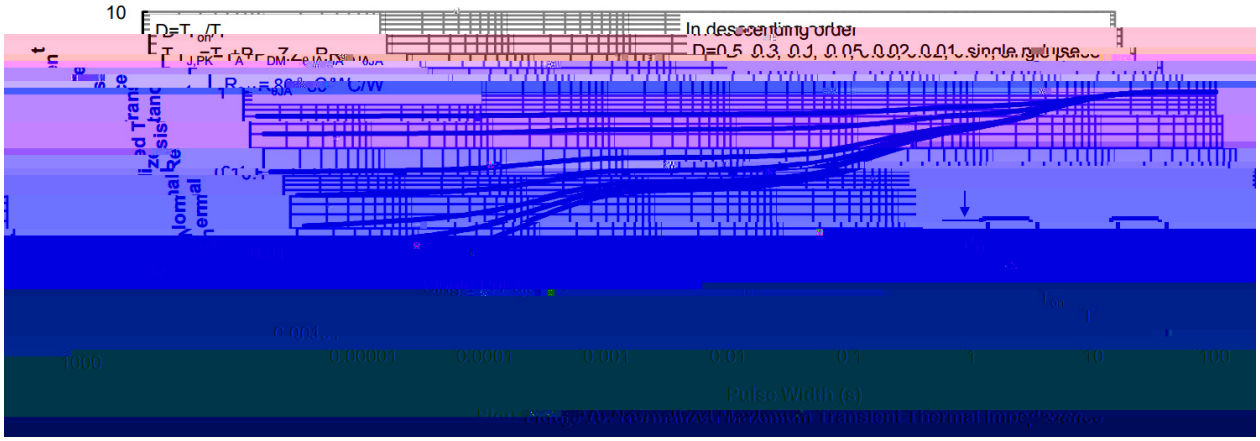

120
100
25°C
0.0001
0.00001
40
20
I_D= -20A

/

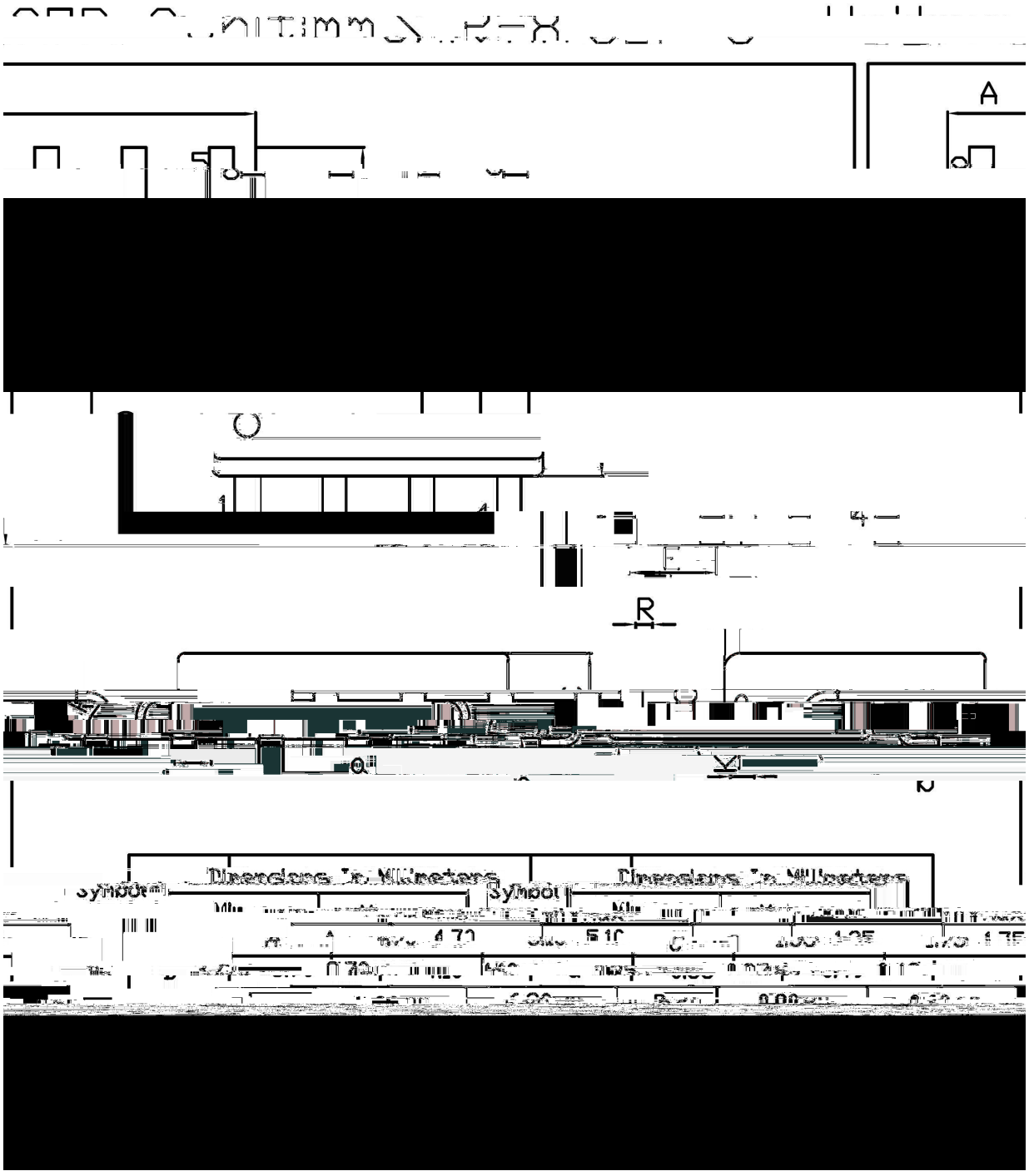


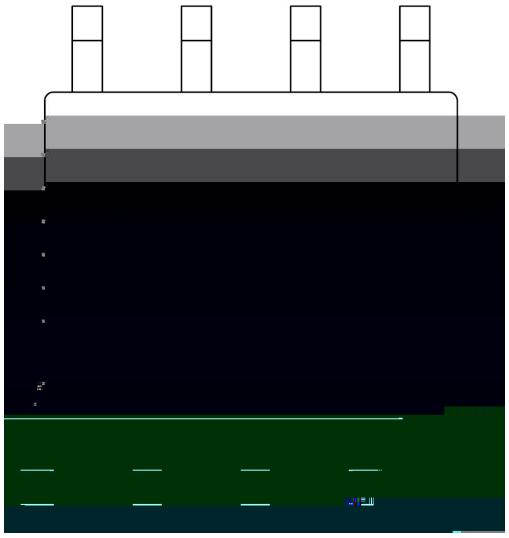


Maximum Forward Biased Safe Operating Area



Normalized Maximum Transient Thermal Impedance


A
R
Dimensions In Millimeters
Symbol
Dimensions In Millimeters
Symbol



Temperature Profile for IR Reflow Soldering(Pb-Free)

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

Note:

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 mm³)