

PDFN3×3-8L

Complementary Enhancement MOSFET in a PDFN3×3-8L Plastic Package.

N-channel

VDS(V)=20V

ID=28A

RDS(ON)<15mΩ (VGS=10V)

RDS(ON)<20mΩ (VGS=4.5V)

RDS(ON)<25mΩ (VGS=2.5V)

HF Product.

P-channel

VDS(V)=-20V

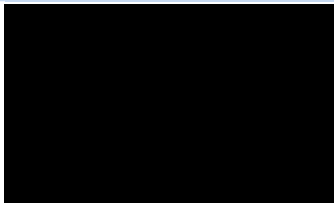
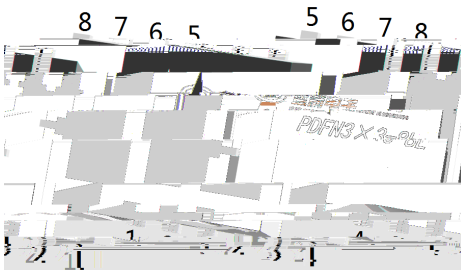
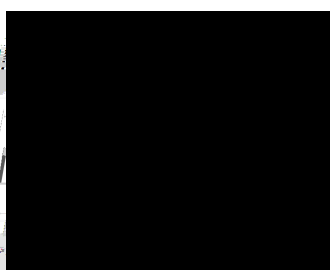
ID=-25A

RDS(ON)<20mΩ (VGS=-10V)

RDS(ON)<25mΩ (VGS=-4.5V)

RDS(ON)<30mΩ (VGS=-2.5V)

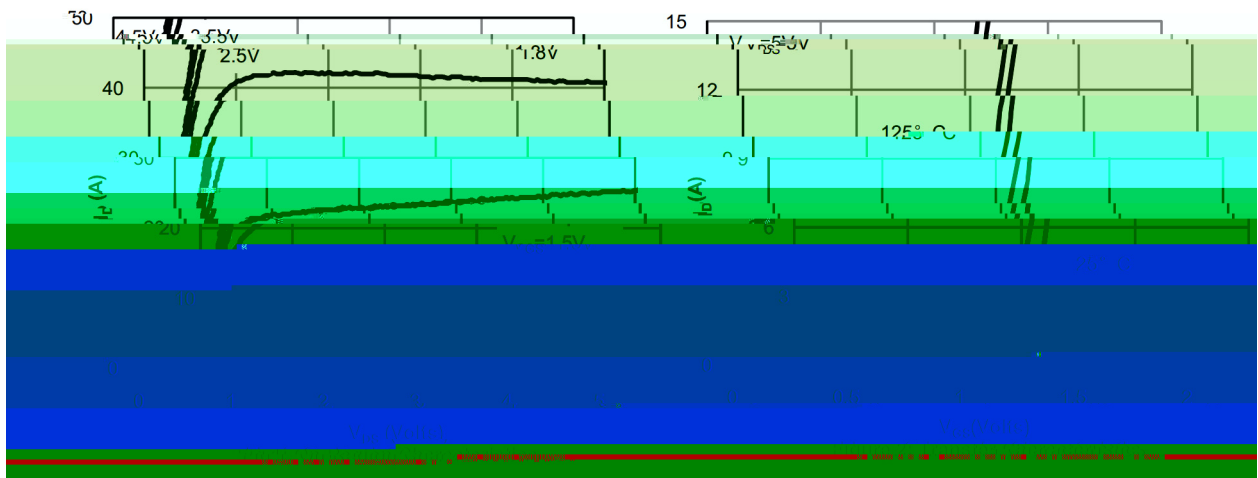
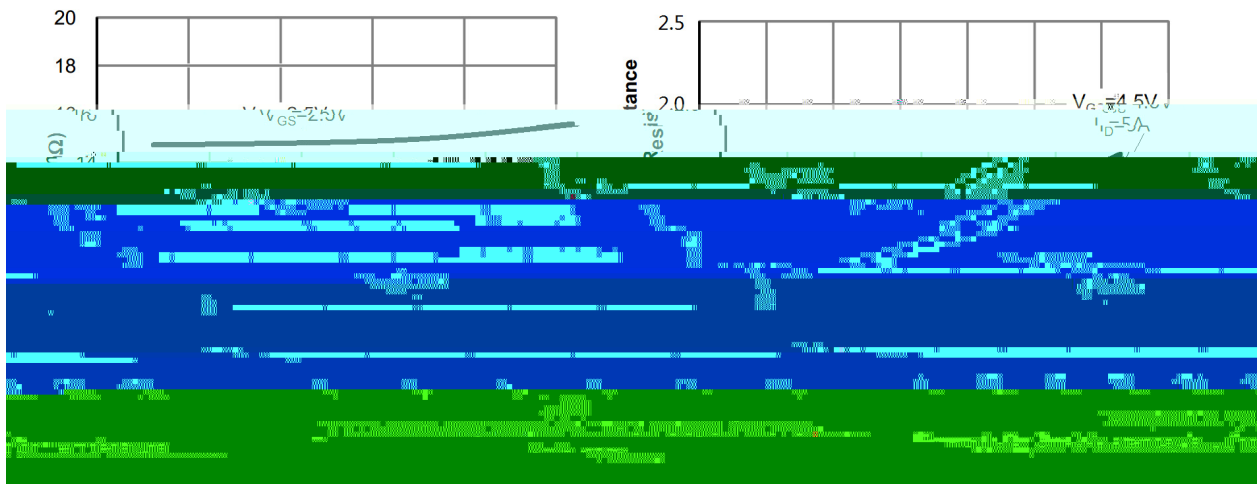
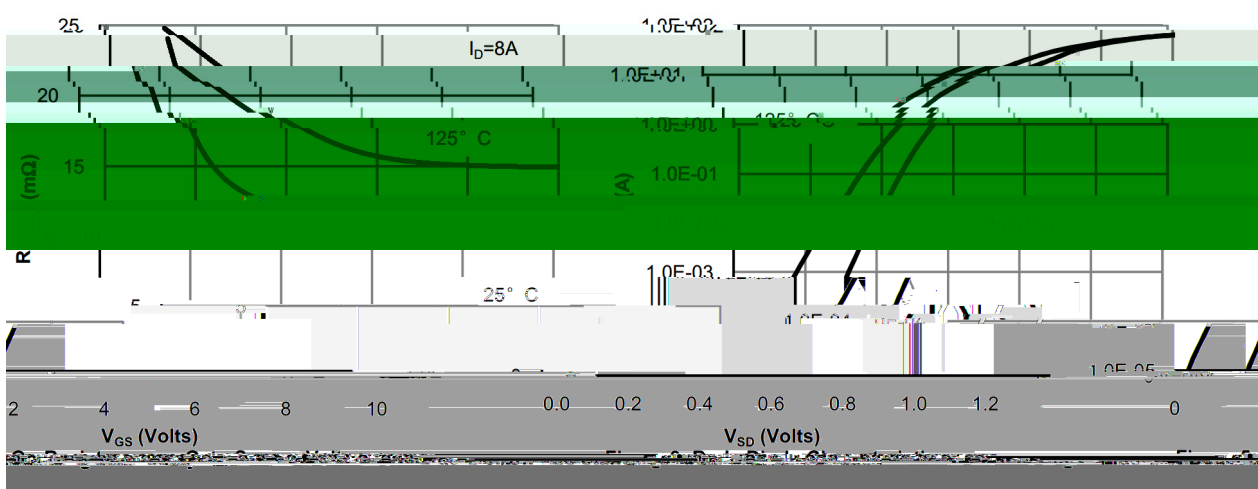
Battery protection switch, Mobile device battery charging and discharging, Load switch



See Marking Instructions.

Parameter	Symbol	Rating		Unit
		N-channe	P-channell	
Drain-Source Voltage	V_{DSS}	± 20		V
Gate-Source Voltage	V_{GSS}	± 12		V
Continuous Drain Current	$I_D (T_C=25^\circ C)$	28	-25	A
Pulsed Drain Current	I_{DM}	43	-38	A
Avalanche Current	I_{AS}	2.8	13.4	A
Avalanche energy $L=0.5mH$	E_{AS}	3.9	89.8	mJ
Power Dissipation	$P_D (T_C=25^\circ C)$	18	17	W
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150		
Maximum Junction-to-Ambient	$R_{\theta JA}$	95		/W
Maximum Junction-to-Case	$R_{\theta JC}$	7		/W

Parameter	Symbol	Test Conditions		Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V$	$I_D=250\text{ A}$	20	22.5		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=20V$	$V_{GS}=0V$			1.0	A
Gate-Body leakage current	I_{GSS}	$V_{GS}=\pm 12V$	$V_{DS}=0V$			± 100	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$	$I_D=250\text{ A}$	0.5	0.7	1.2	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10V$	$I_D=10A$		10	15	m
		$V_{GS}=4.5V$	$I_D=5A$		11.5	20	m
		$V_{GS}=2.5V$	$I_D=2.5A$		15	25	m
Diode Forward Voltage	V_{SD}	$V_{GS}=0V$	$I_S=1.0A$		0.69	1.2	V
Input Capacitance	C_{iss}	$V_{DS}=15V$ $f=1.0MHz$ $V_{GS}=0V$			1000		pF
Output Capacitance	C_{oss}				715		pF



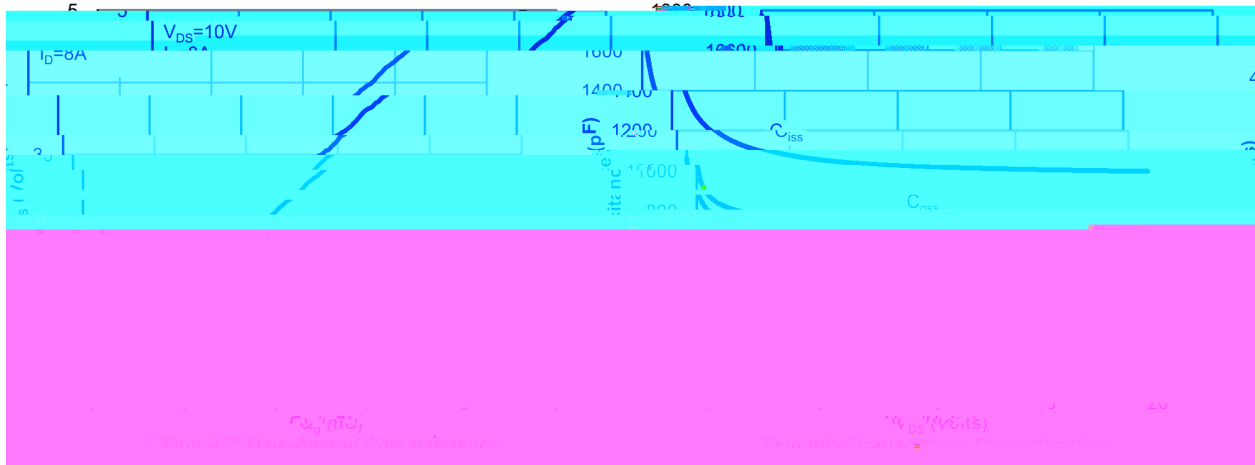
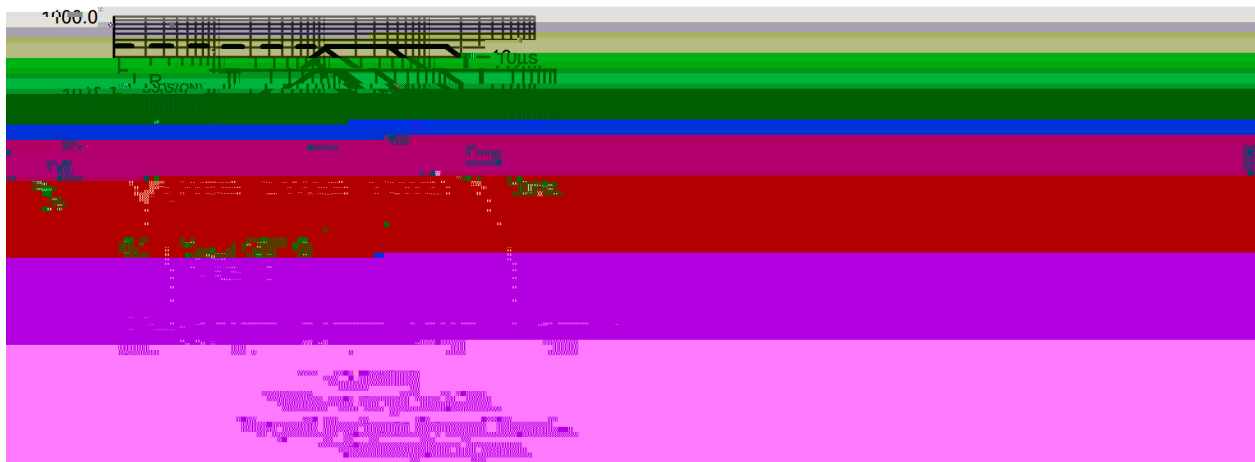
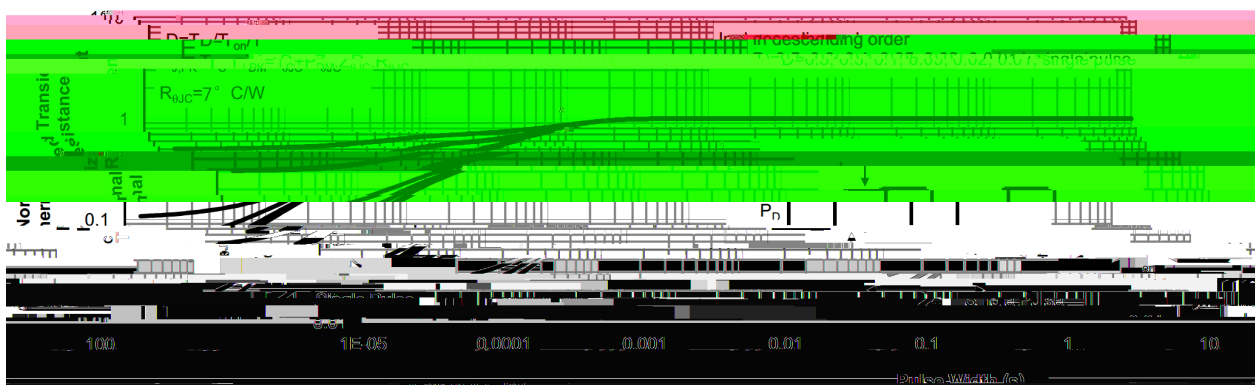
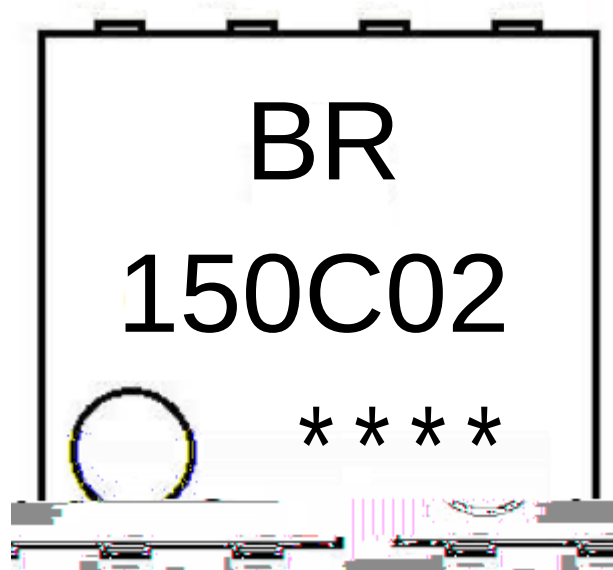


Figure10: Normalized Maximum Transient Thermal Impedance



BR

150C02

Note:

BR: Company Code

150C02: Product Type Code

****: Lot No. Code, code change with Lot No

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
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/ REEL

Package Type	Units	Dimension	(unit mm)
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