/ Descriptions

PDFN5×6A N

Dual N-CHANNEL MOSFET in a PDFN5×6A Plastic Package .

/ Features

V_{DS} (V) =100V I_D =30A (V_{GS} = ±20V)

$R_{DS(ON)}$@10V≤25mR(Typ.20mR)

$R_{DS(ON)}$@4.5V≤35mR(Typ.25mR)

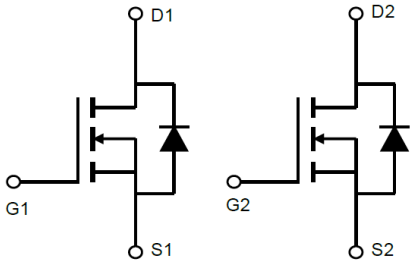
HF Product.

/ Applications

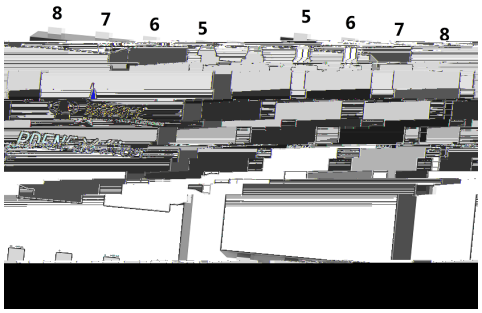
DC/DC

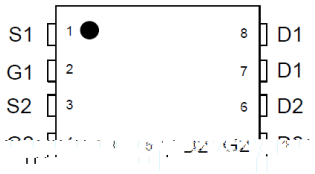
DC/DC Converter, Ideal for high-frequency switching and synchronous rectification.

/ Equivalent Circuit



/ Pinning





/ Marking

See Marking Instructions.

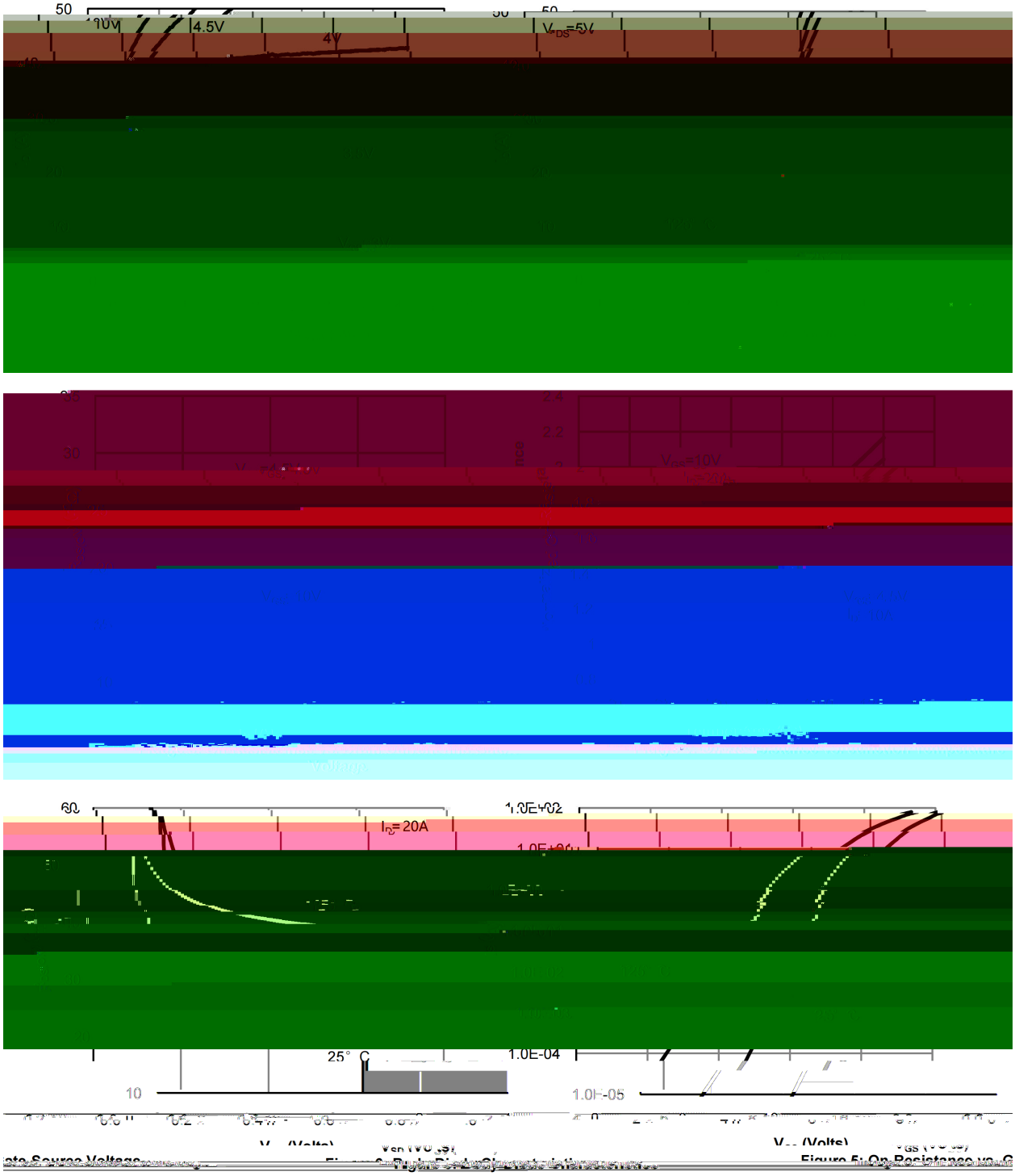
Parameter	Symbol Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	100	V
Drain Current	I_D(Tc=25)	30	A
Drain Current - Pulsed	I_{DM}	113	A
Gate-Source Voltage	V_{GS}	±20	V
Avalanche Current	I_{AS}	7	A
Single Pulsed Avalanche Energy	E_{AS}	24.5	mJ
Power Dissipation	P(Tc=25) P'0«îU3Hõp#Çqù G™2		

Parameter

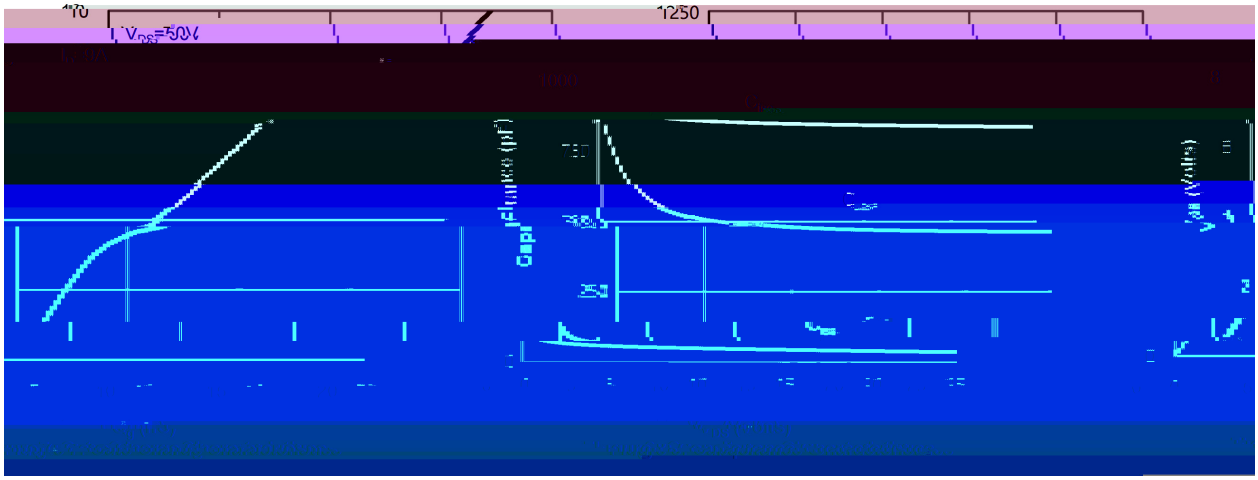
/ Electrical Characteristics(Ta=25)

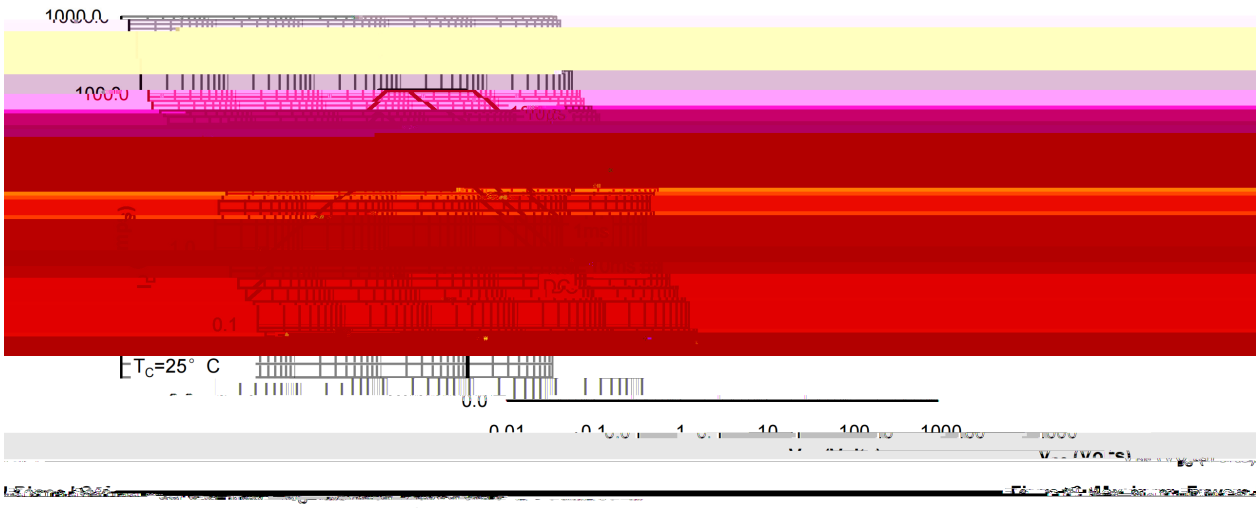
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=10V V_{DS}=50V R_L=5.5Ω R_{GEN}=3.0Ω		5		ns
Turn-On Rise Time	t_r			3.2		
Turn-Off Delay Time	$t_{d(off)}$			21		
Turn-Off Fall Time	t_f			3		

/ Electrical Characteristic Curve



/ Electrical Characteristic Curve





Operating Area

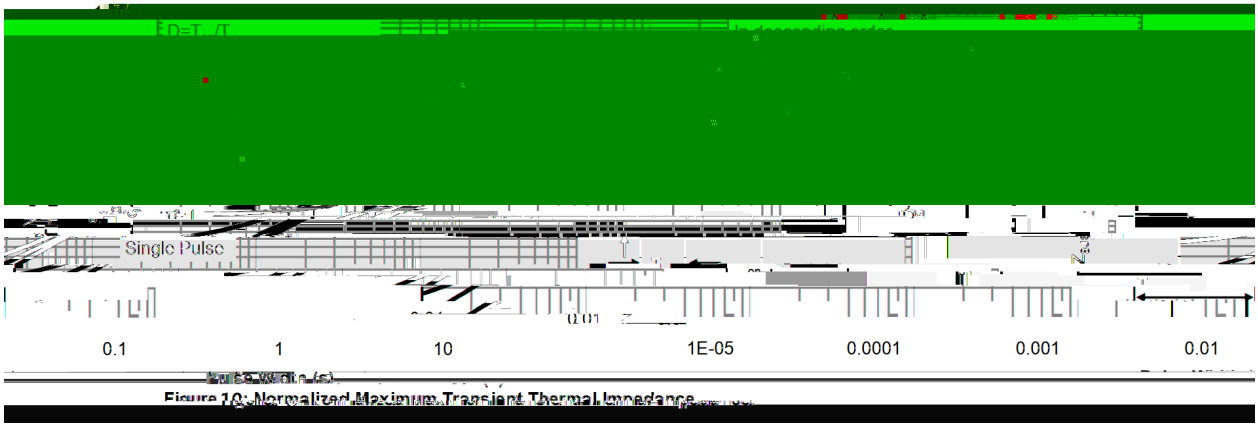
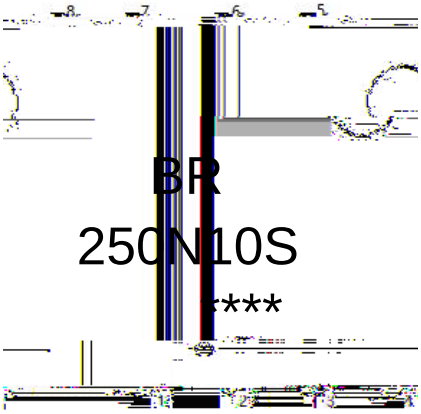


Figure 10: Normalized Maximum Transient Thermal Impedance

BRCS250N10SYM

/ Marking Instructions



BR

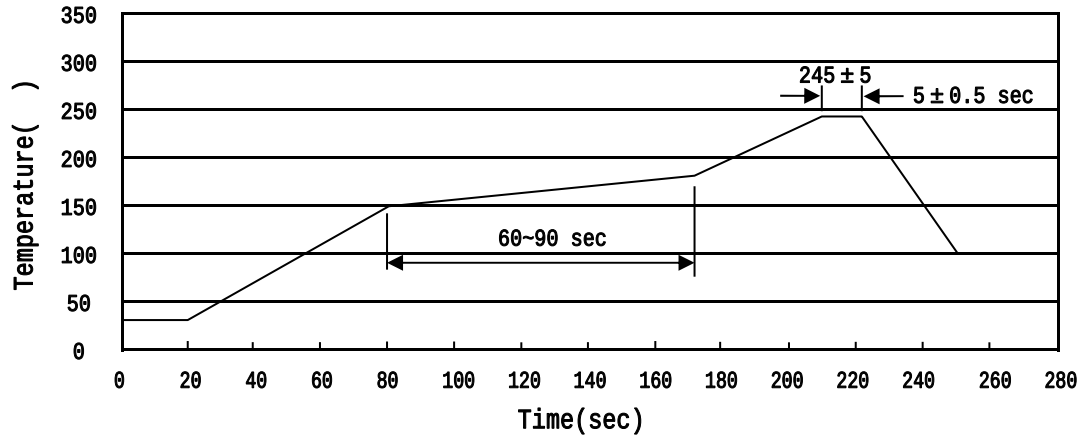
250N10S

****

Note

BR	Company Code
250N10S	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.

/ Resistance to Soldering Heat Test Conditions

260±5	10±1 sec.	Temp.:260±5	Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension		(unit mm³)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
PDFN5×6A	5,000	2	10,000	6	60,000	13''×12	360×360×50	380×335×366

/ Notices