



Rev.A May.-2020

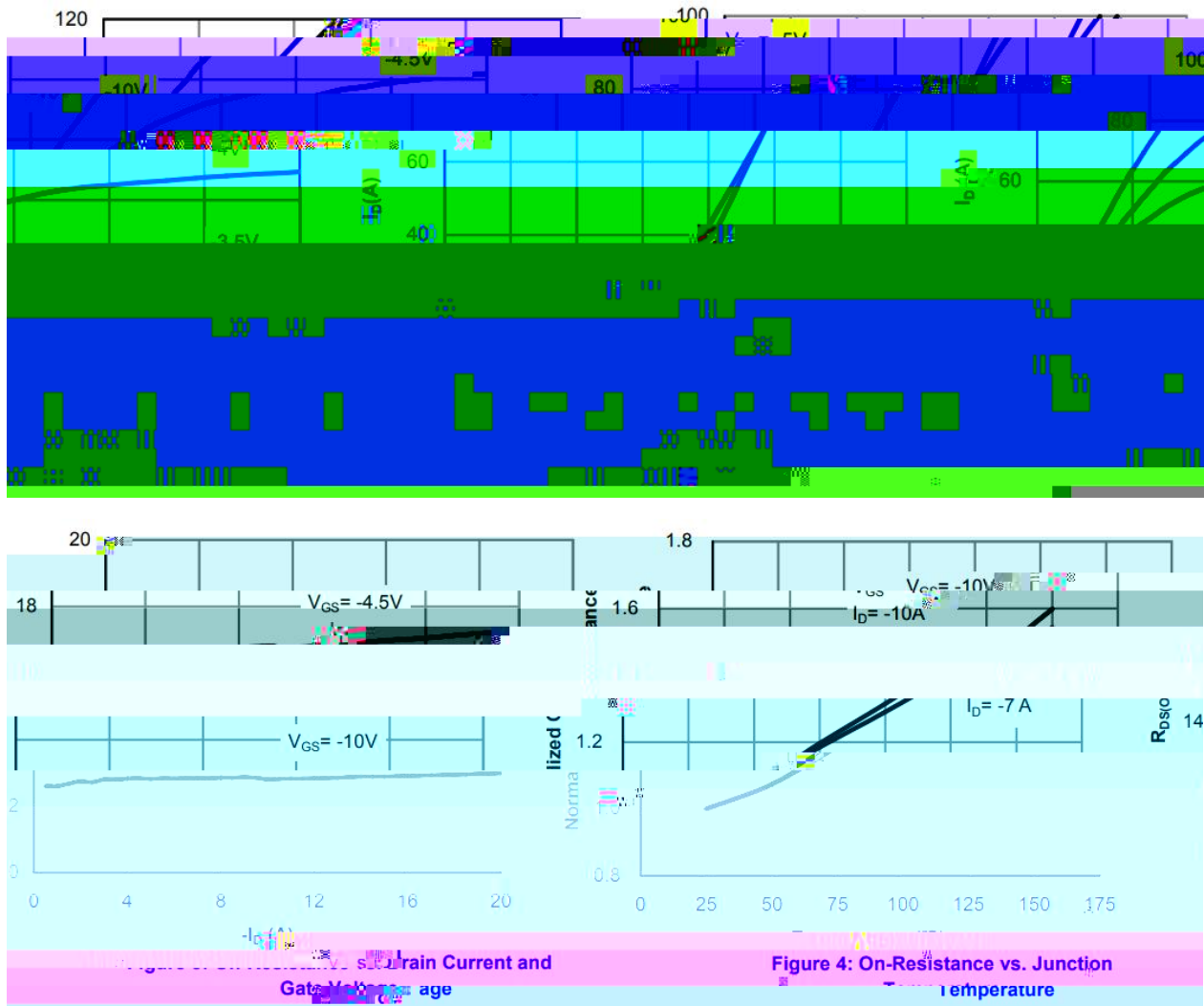
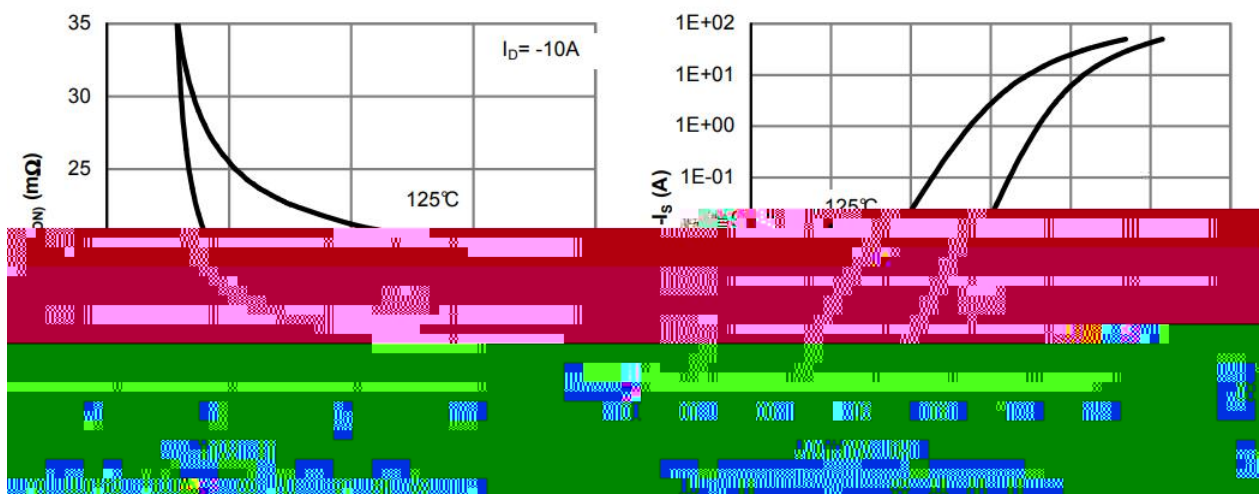
VRS0; M M E S 3 5 7 1
P-Channel Enhancement Mode Fielhm "

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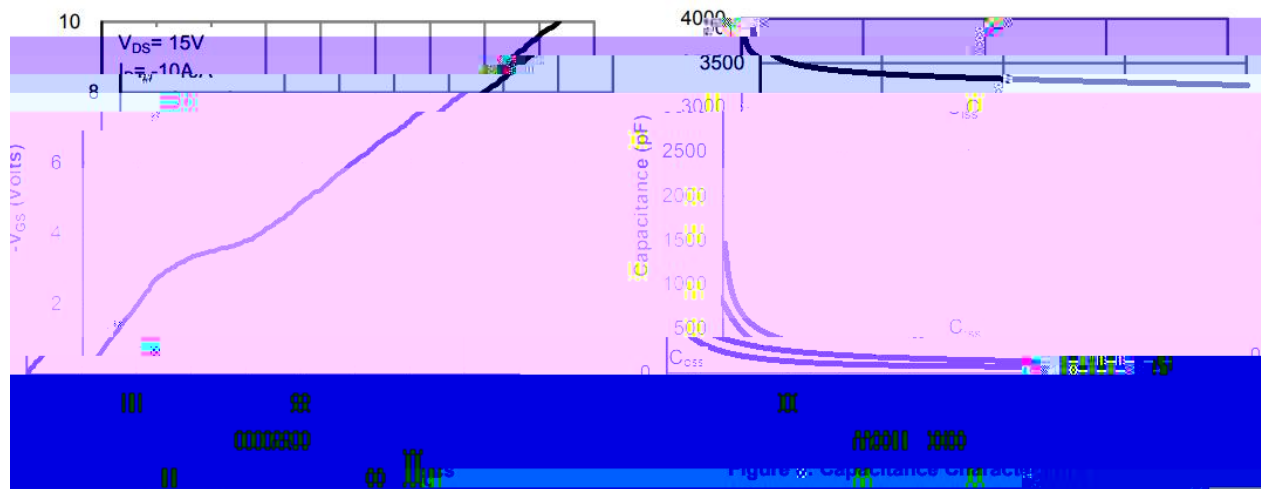
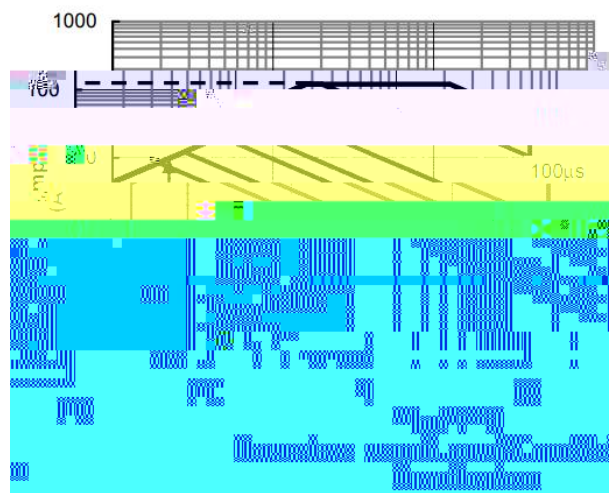
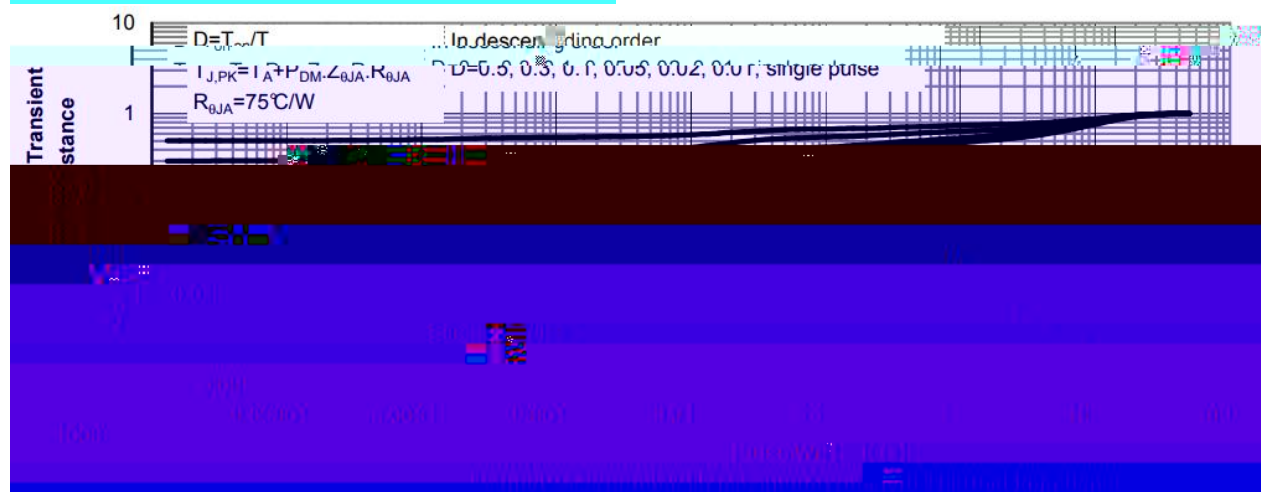
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-40	V
Gate-Source Voltage	V_{GS}	± 20	V
Continuous Drain Current	I_D ($T_a=25^{\circ}\text{C}$)	-1	A
Continuous Drain Current	I_D ($T_a=70^{\circ}\text{C}$)	-	A
Power Dissipation for Single Operation	P_D ($T_a=25^{\circ}\text{C}$)	1.7	W
Power Dissipation for Single Operation	P_D ($T_a=70^{\circ}\text{C}$)	1	W

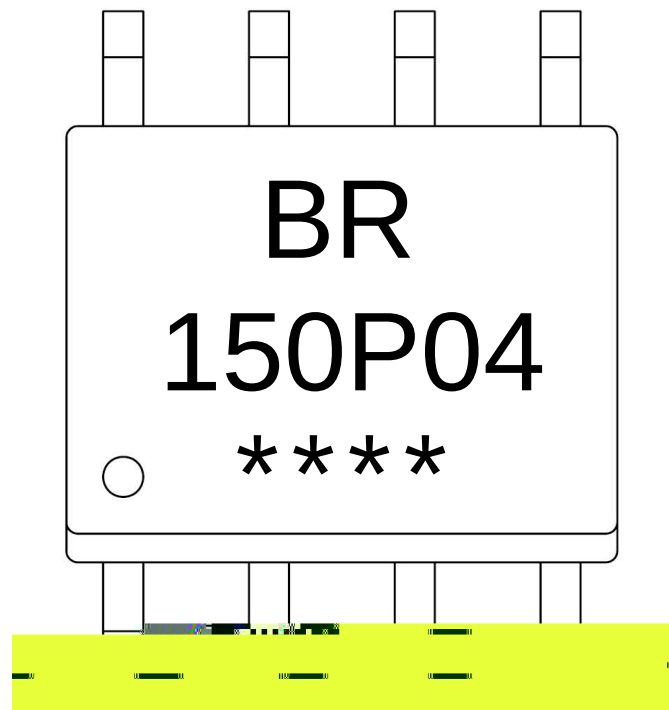
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$I_D = -250\mu A$ $V_{GS} = 0V$	-40			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -40V$ $V_{GS} = 0V$			-1.0	μA
		$V_{DS} = -40V$ $V_{GS} = 0V$ $T_J = 55^\circ C$			-5.0	
Gate-Body leakage current	I_{GSS}	$V_{DS} = 0V$ $V_{GS} = \pm 20V$			± 100	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS} = V_{GS}$ $I_D = -250\mu A$	-1.2	-1.6	-2.5	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS} = -10V$ $I_D = -10A$		13.1	15	m Ω
		$V_{GS} = -4.5V$ $I_D = -7A$		18	21	
Forward Transconductance	g_{FS}	$V_{DS} = -5V$ $I_D = -10A$		9.5		S
Diode Forward Voltage	V_{SD}	$I_S = -1A$ $V_{GS} = 0V$		-0.8	-1.0	V
Total Gate Charge	$Q_g(10V)$	$V_{GS} = -10V$ $V_{DS} = -20V$ $I_D = -10A$		42	55	nC
Total Gate Charge	$Q_g(4.5V)$			18.6		
Gate-Source Charge	Q_{gs}			7		
Gate-Drain Charge	Q_{gd}			8.6		
Gate Resistance	R_g	$V_{GS} = 0V$ $f = 1MHz$ $V_{DS} = 0V$		8.5		Ω
Input Capacitance	C_{iss}	$V_{GS} = 0V$ $f = 1MHz$ $V_{DS} = -25V$		3300		pF
Output Capacitance	C_{oss}			135		
Reverse Transfer Capacitance	C_{rss}			177		
Turn-on Delay Time	$t_{d(on)}$	$V_{GS} = -10V$ $V_{DS} = -20V$ $R_L = 2\Omega$ $R_{GEN} = 3\Omega$		9.4		ns
Turn-on Rise Time	t_r			20		
Turn-off Delay Time	$t_{d(off)}$			55		
Turn-off Fall Time	t_f			30		

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標 記

BR

公 司 代 碼

150P04

產 品 代 碼

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Note:

BR:

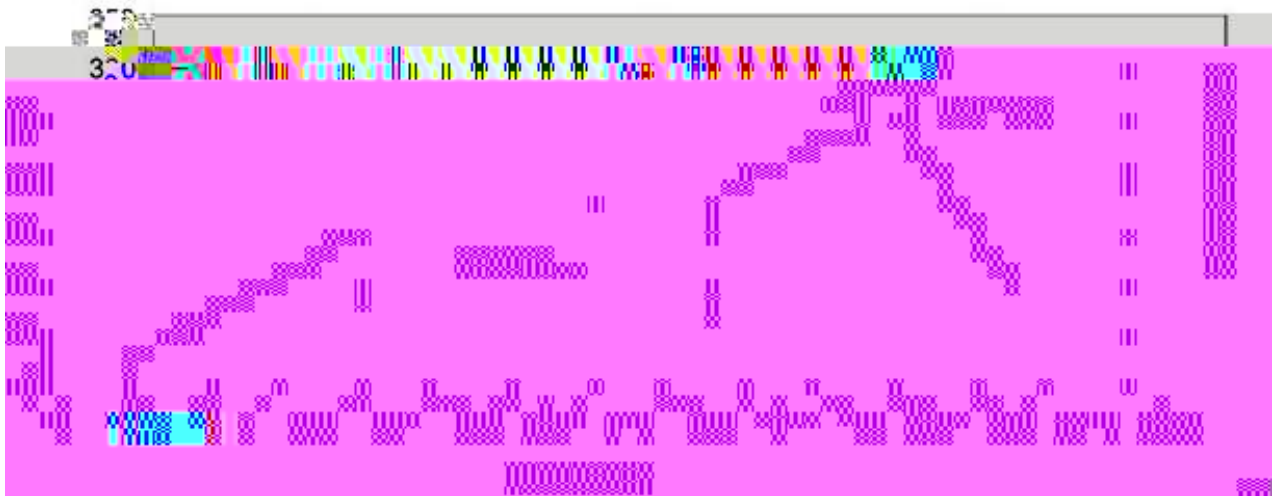
Company Code.

150P04:

Product Type

****:

Lot No. Code, code change with Lot No.



б " X

1. 150~180 °C, Time: 60~90sec;
2. 245 °C, Duration: 5~0.5sec;
3. Cooling Speed: 2~10 °C/sec.

Note:

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

□ °C 260 ± 5 °C 10 ± 1 sec. Temp.: 260 ± 5 Time: 10 ± 1 sec

о` γ t / REEL

Package Type	Units					Dimension			(unit mm ³)
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box	
SOP/ESOP-8	4,000								