

BR4953

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-30	V
Gate-Source Voltage	V_{GS}	± 20	V

/ Electrical Characteristics(Ta=25)

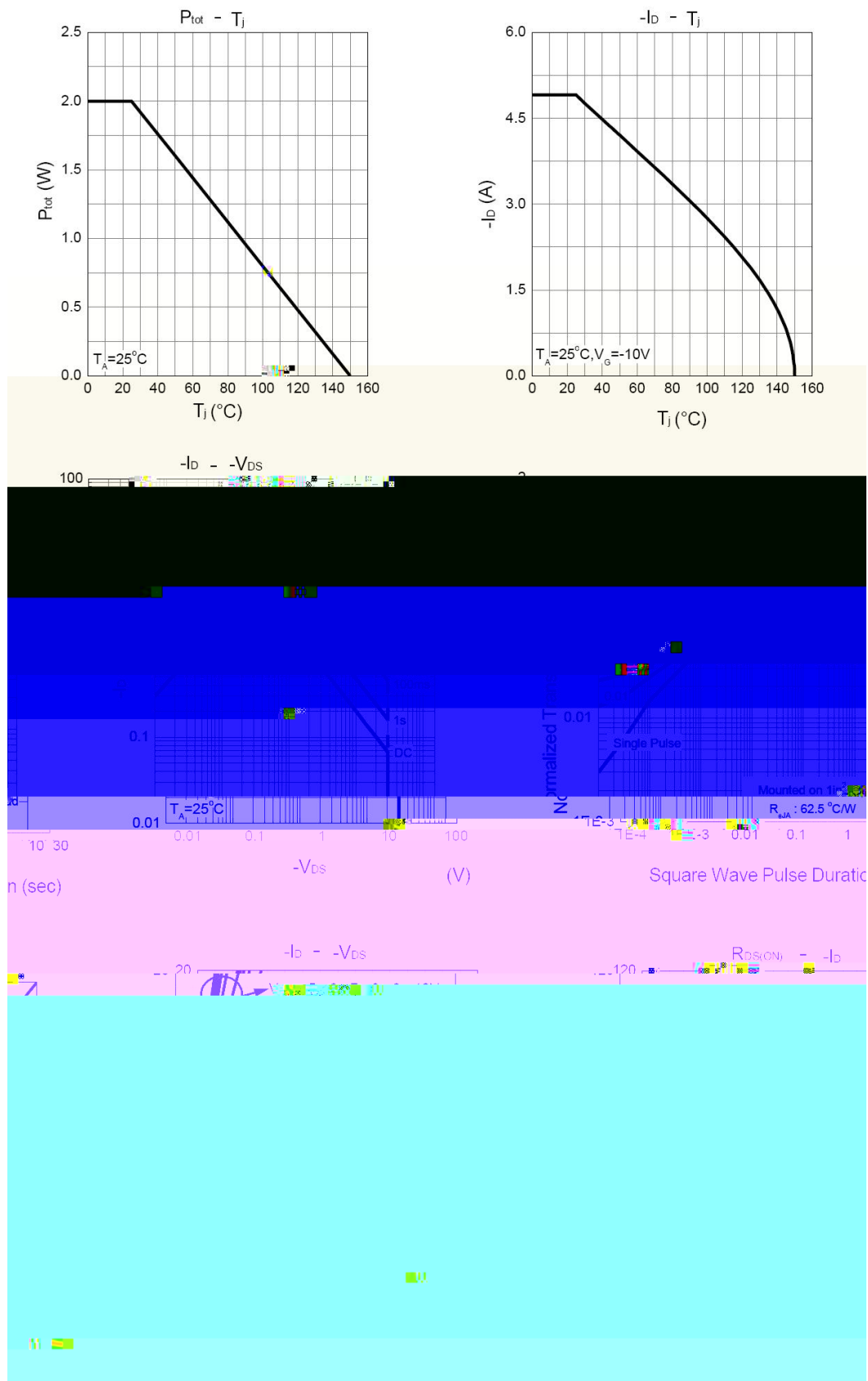
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Gate Resistance	R_G^b	$V_{GS}=0V$ $V_{DS}=0V$ $F=1MHz$		11		
Input Capacitance	C_{iss}^b	$V_{GS}=0V$ $V_{DS}=-25V$ Frequency=1.0MHz		550		pF
Output Capacitance	C_{oss}^b			60		
Reverse Transfer Capacitance	C_{rss}^b			52		
Turn-on Delay Time	$t_{d(ON)}^b$	$V_{DD}=-15V$ $R_L=15\Omega$ $I_{DS}=-1A$ $V_{GEN}=-10V$ $R_G=6\Omega$		10	18	ns
Turn-on Rise Time	T_r^b			15	20	
Turn-off Delay Time	$T_{d(OFF)}^b$			22	38	
Turn-off Fall Time	T_f^b			15	25	

Notes:

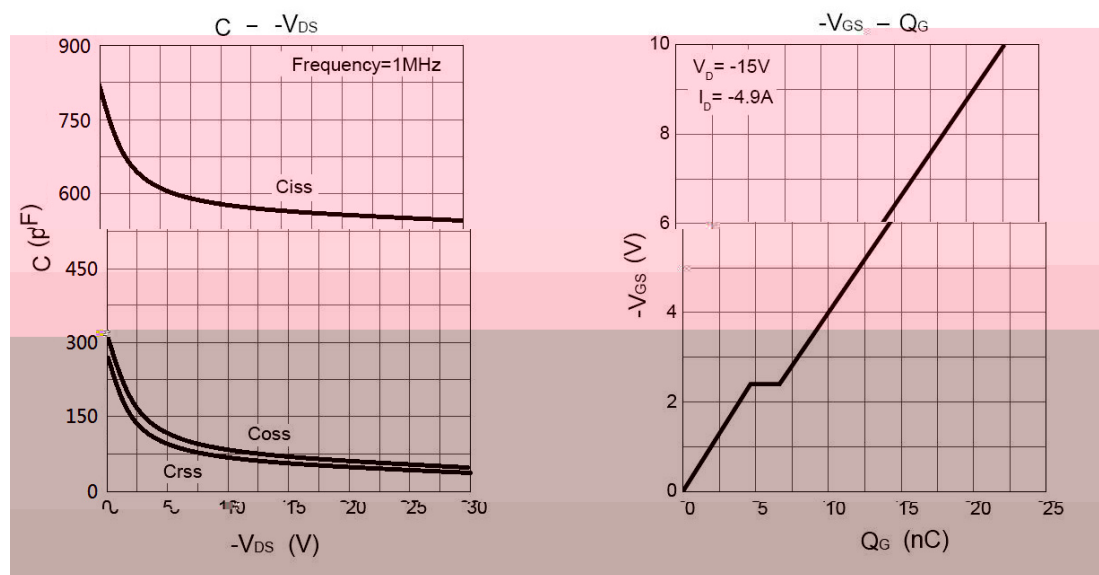
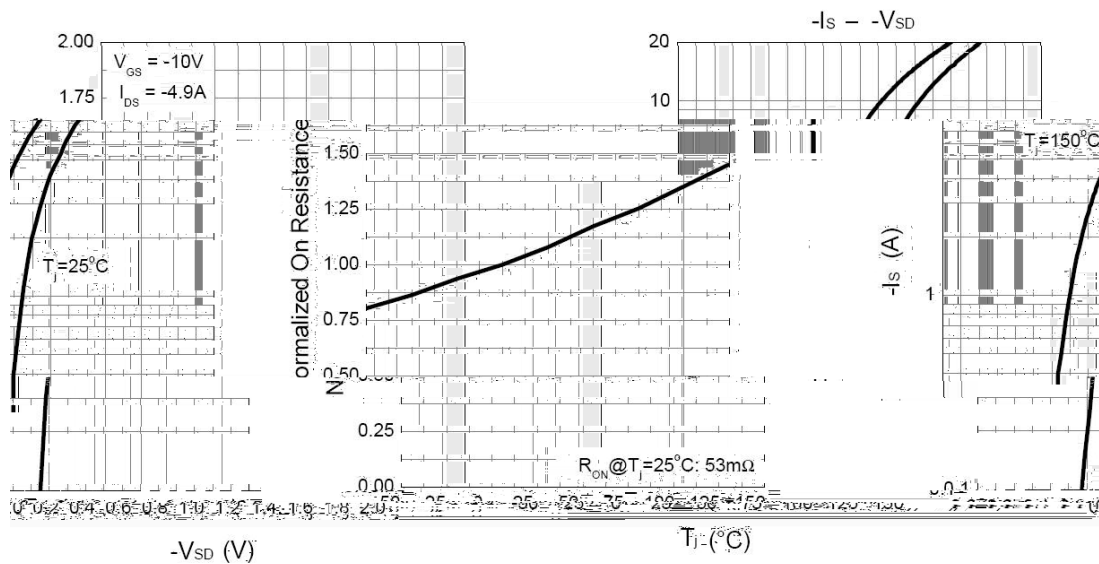
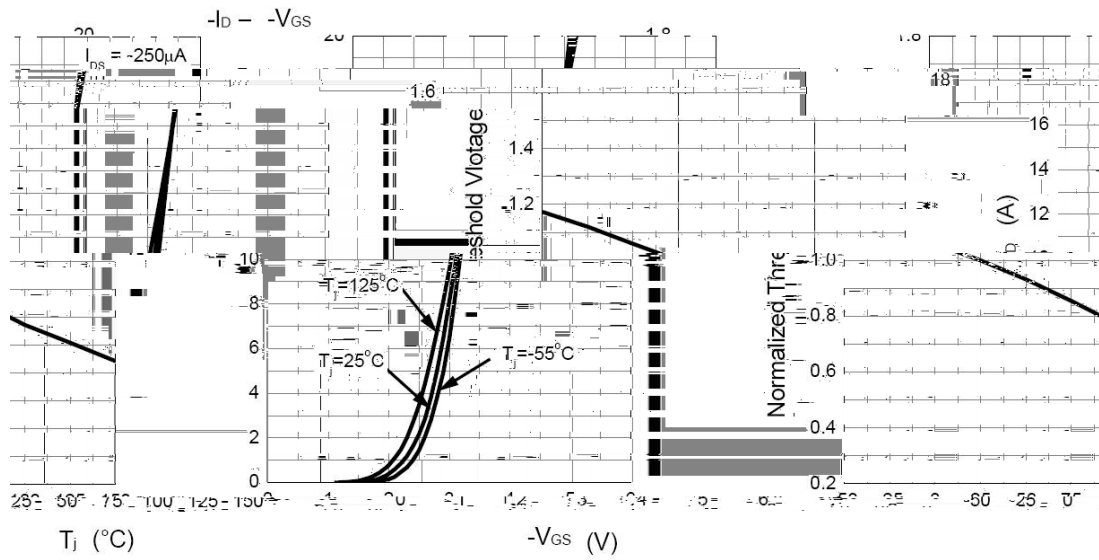
a : Pulse test ; pulse width $\leq 300\mu s$, duty cycle $\leq 2\%$.

b : Guaranteed by design, not subject to production testing.

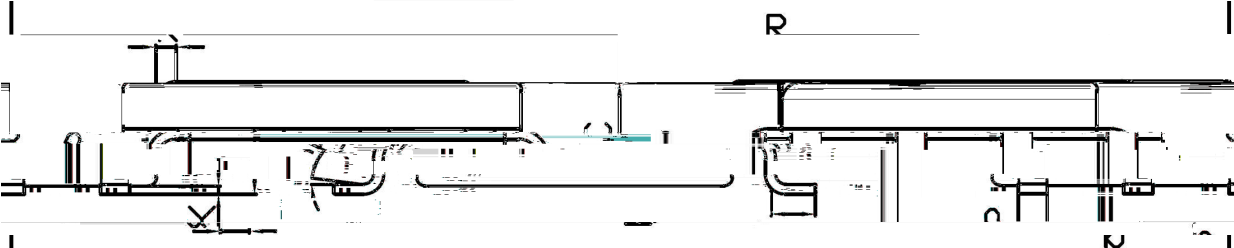
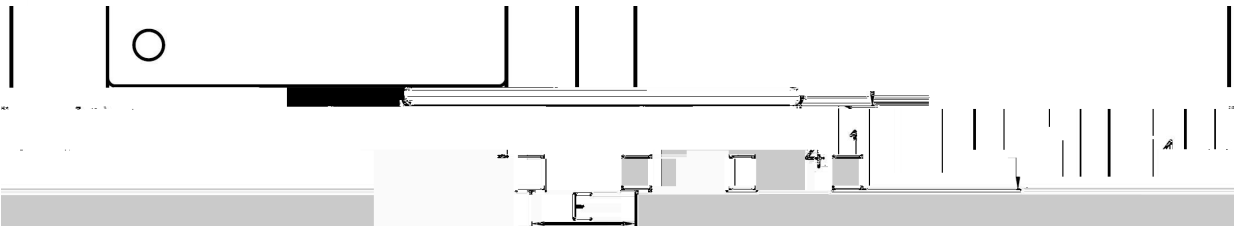
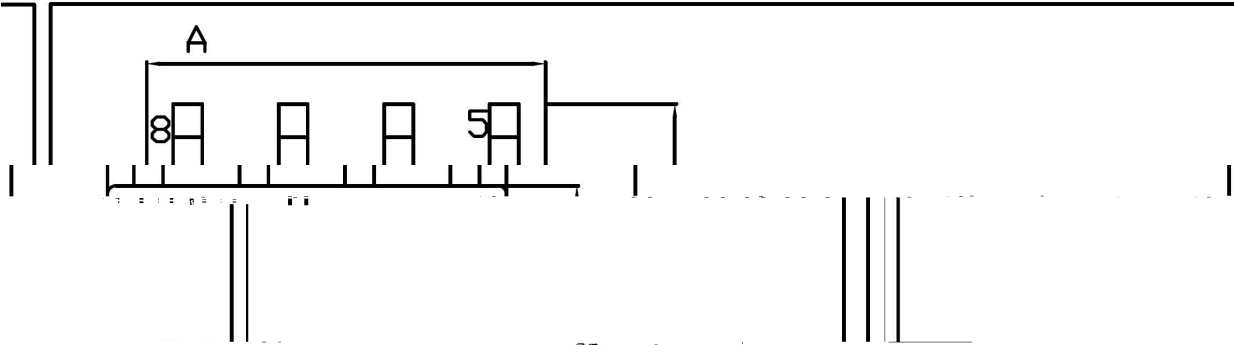
/ Electrical Characteristic Curve



/ Electrical Characteristic Curve

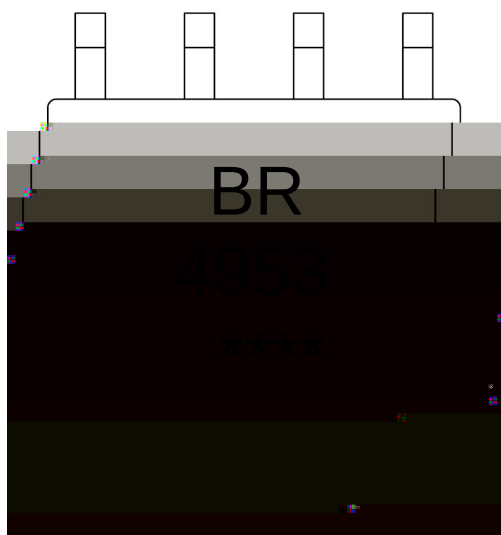


/ Package Dimensions



Dimensions In Millimeters				Dimensions In Millimeters			
Symbol	Max	Min	Typ	Symbol	Max	Min	Typ
A	1.75	1.65	1.70	A ₁	4.72	4.60	4.65
B	5.80	5.60	5.70	B ₁	10.00	9.80	9.90
C	0.40	0.30	0.35	C	0.10	0.05	0.07
D	1.25	1.15	1.20	D	0.22	0.15	0.18
E	0.40	0.30	0.35	E	0.10	0.05	0.07
F	0.40	0.30	0.35	F	0.10	0.05	0.07
G	0.40	0.30	0.35	G	0.10	0.05	0.07
H	0.40	0.30	0.35	H	0.10	0.05	0.07
I	0.40	0.30	0.35	I	0.10	0.05	0.07

/ Marking Instructions



BR

4953

Note:

BR: Company Code.

4953: 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;

2

245 5

5 0.5sec;

3

2 10

/sec.

1.Preheating:150~180 , Time:60~90sec.

2.Peak Temp.:245 5 , Duration:5 0.5sec.

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