

/ Revised record

	□ □ □ A		□ S		
	□ □ A S	□ B2	□ □ A		

/ Descriptions

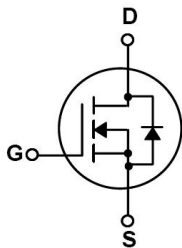
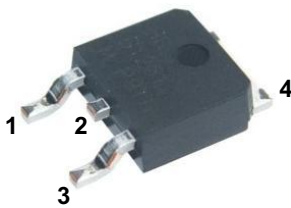
TO-252 N 650V

N-CHANNEL 650V Super-Junction Power MOSFET in a TO-252 Plastic Package.

/ Features $R_{DS(on)}$ C_{rss} Low $R_{DS(on)}$, low gate charge, low C_{rss} , fast switching, HF Product.**/ Applications**

DC/DC

Suited for low voltage applications such as automotive, DC/DC Converters, and high efficiency switching for power management in portable and battery operated products.

/ Equivalent Circuit**/ Pinning**

PIN1 G

PIN 2 D

PIN 3 S

PIN 4 D

/ Marking

See Marking Instructions.

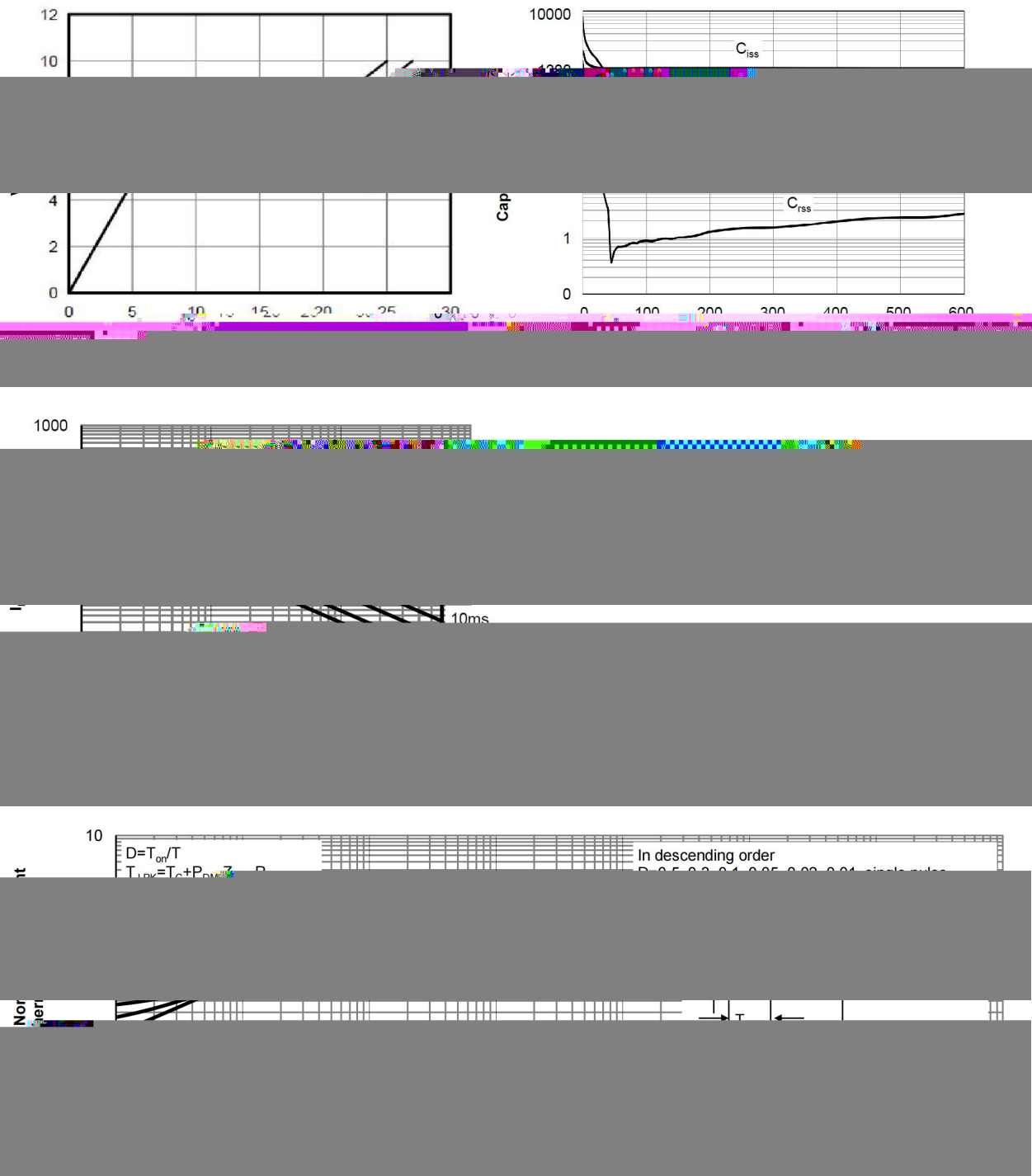
参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Drain-Source Voltage	V_{DSS}	650	V

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Ma	单位 Unit
Continuous Diode Forward Current	I_S				14	A
Total Gate Charge	g	$V_{DS}=520V \quad I_D = .5A$ $V_{GS}=10V$		26		nC
Gate-Source Charge	g_s			3.6		nC
Gate-Drain Charge	g_d			10.5		nC
Reverse recovery time	t_{rr}	V_R				

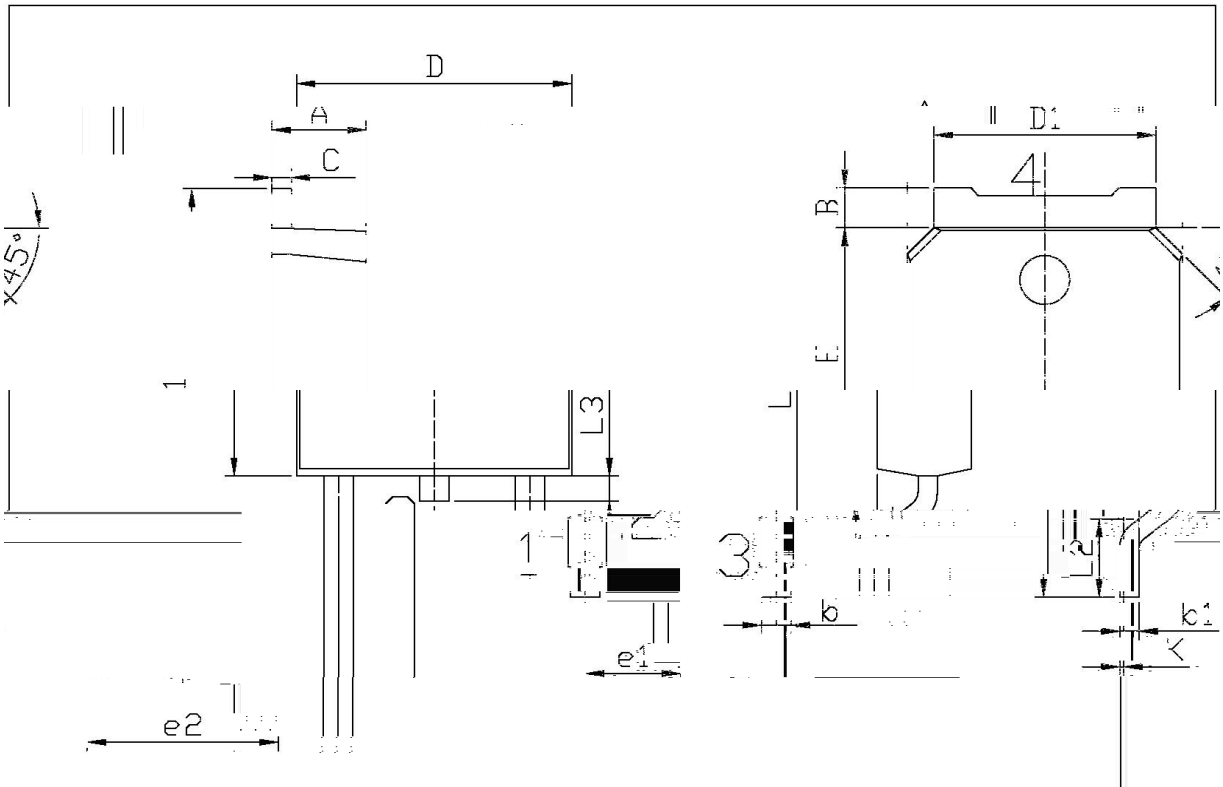
/ Electrical Characteristic Curve



/ Electrical Characteristic Curve



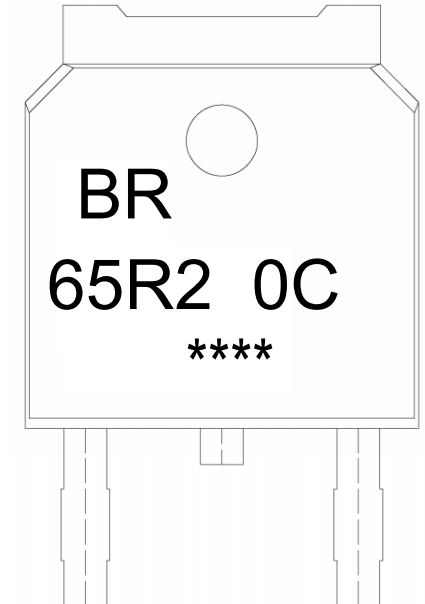
/ Package Dimensions



单位: mm

Dimensions in Millimeters				Dimensions in Millimeters			
Symbol	Max	Min	Typ	Symbol	Max	Min	Typ
A	6.25			A	2.20		2.40
B	2.34			B	0.95		1.25
C	0.39			C	0.43		0.70
D	0.45			D	9.85		10.35
D1	6.45			D1	6.75		
E	10.70			E	0.45		0.55
L	2.00			L	0.60		0.90
L2	0.80			L2	0.80		0.90
L3	0.60			L3	0.60		0.90
e1	2.00			e1	2.00		
e2	6.43			e2	6.43		
e3	0.43			e3	0.43		
e4	0.43			e4	0.43		
k1	0.43			k1	0.43		

—252—

/ Marking Instructions

BR

Note:

BR: Company Code

65R2 0C: Product Type Code

: Lot No. Code, code change with Lot No

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Note:

- | | | | |
|---|------------|----------|---|
| 1 | 150 1 0 | 60 0sec | 1.Preheating:150 1 0 , Time:60 0sec. |
| 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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
TO-252	2,500	2	5,000	6	30,000	13" ×16	360×360×50	380×335×366

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box			