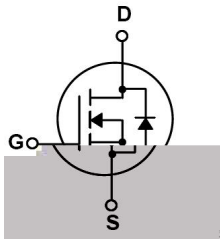


TO-220 N MOS N-CHANNEL MOSFET in a TO-220 Plastic Package.

gy2gw

Low gate charge, Fast switching capability, Avalanche energy specified, Improved dv/dt capability.

Designed for high voltage, high speed power switching applications such as high efficiency switched mode power supplies, active power factor correction.



PIN1 G PIN 2 D PIN 3 S

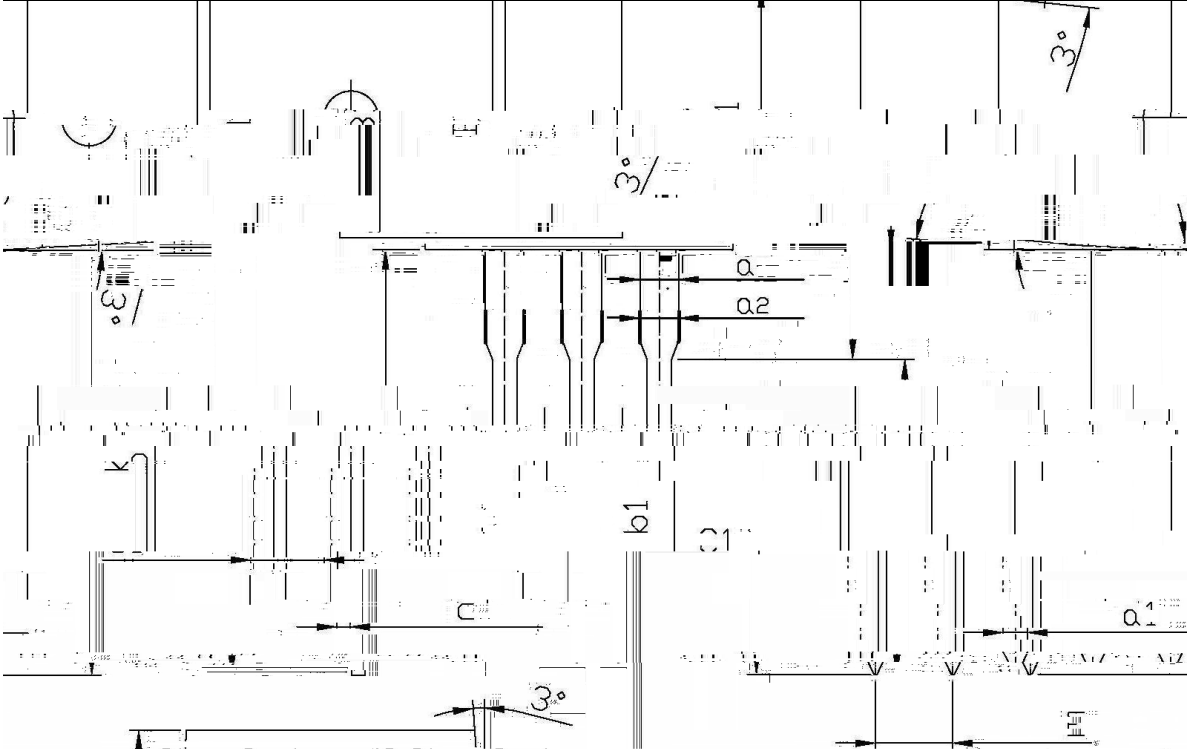
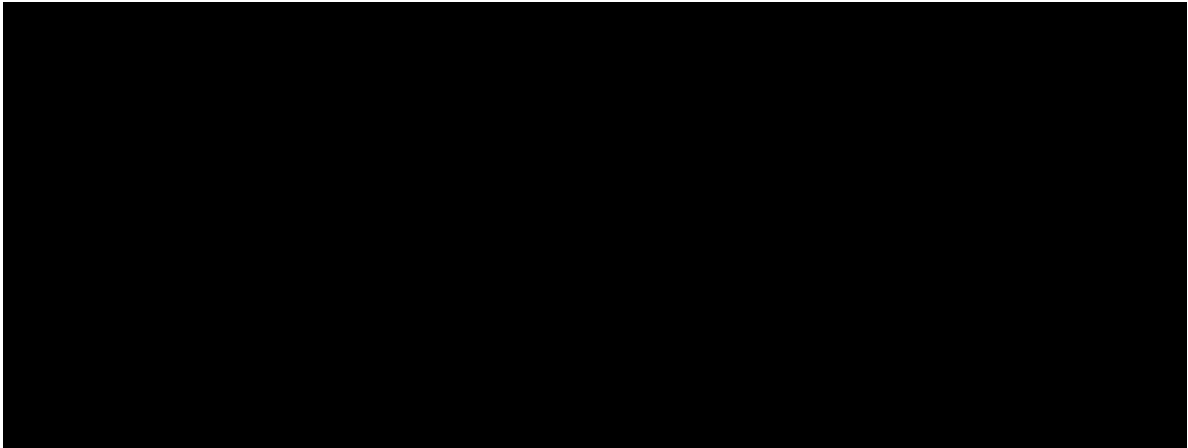
/ h_{FE}

Parameter

/ Electrical Characteristic Curve

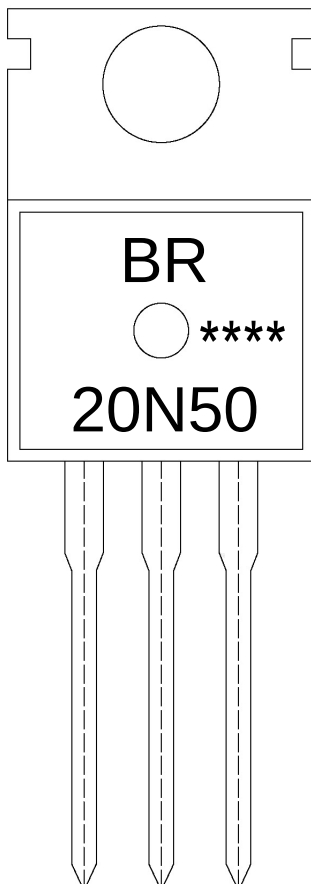


/ Package Dimensions



Dimensions in Millimeters			Dimensions in Millimeters		
Symbol	Min	Max	Symbol	Min	Max
	9.4	9.8		10.2	10.6
	2.6	2.8		15.7	16.1
	0.9	1.0		12.6	13.0
	0.9	1.0		9.6	10.0
	1.0	1.2		12.7	13.1
	0.2	0.3		1.25	1.45

/ Marking Instructions



BR

53Q83

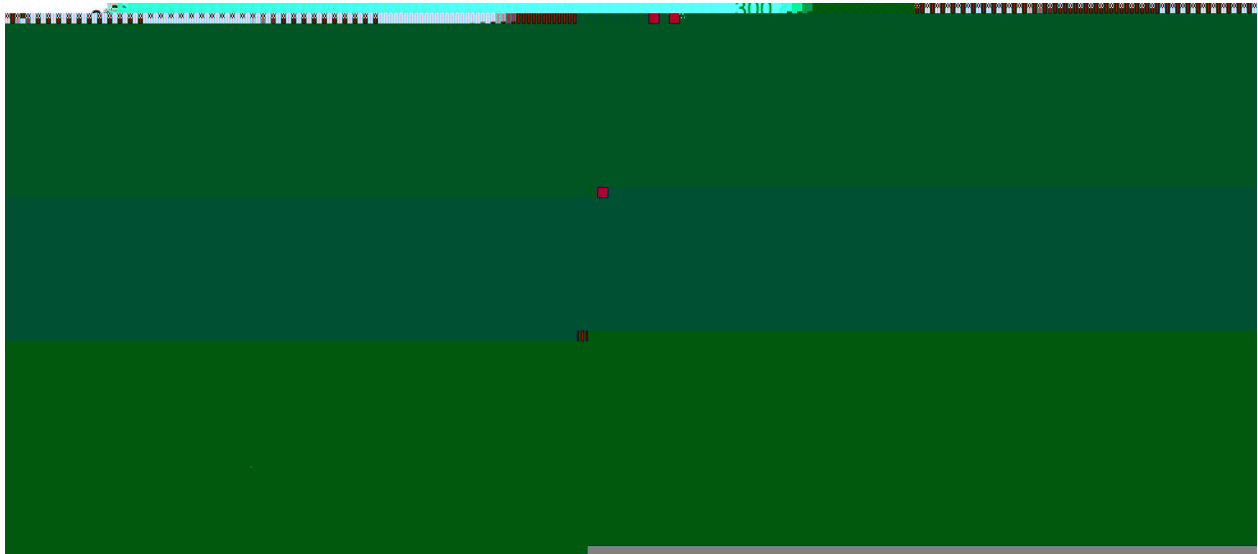
Note:

BR: Company Code

20N50: Product Type.

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

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- | | | | | | |
|---|----------|------|-------------|--------|---|
| 1 | 25 | 150% | 60 | 90sec; | 1.Preheating:25~150%, Time:60~90sec. |
| 2 | 255 ± 5% | | 5 ± 0.5sec; | | 2.Peak Temp.:255 ± 5%, Duration:5 ± 0.5sec. |
| 3 | | 2 | 10%/sec. | | 3. Cooling Speed: 2~10%/sec. |

/ Resistance to Soldering Heat Test Conditions

270 ± 5% 10 ± 1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ 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 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

/ Notices