

BRCS26N50PH

Rev.A Jul.-2019

/ Descriptions

N TO-3PH

N-Channel MOSFET in a TO-3PH Plastic Package.

/ Features

$R_{DS(ON)}$ Q_g

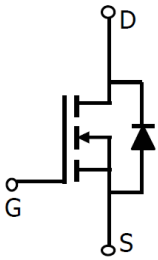
Fast Intrinsic Rectifier, Low $R_{DS(ON)}$ and Q_g , Low Package Inductance

/ Applications

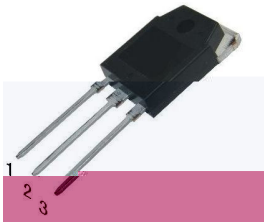
; : \$:

Switch-Mode and Resonant-Mode Power Supplies, DC-DC Converters, Laser Drivers, AC and DC Motor Drives, Robotics and Servo Controls.

/ Equivalent Circuit



/ Pinning



PIN1 Gate PIN 2 Drain PIN 3 Source

/ h_{FE} Classifications & Marking

See Marking Instructions.

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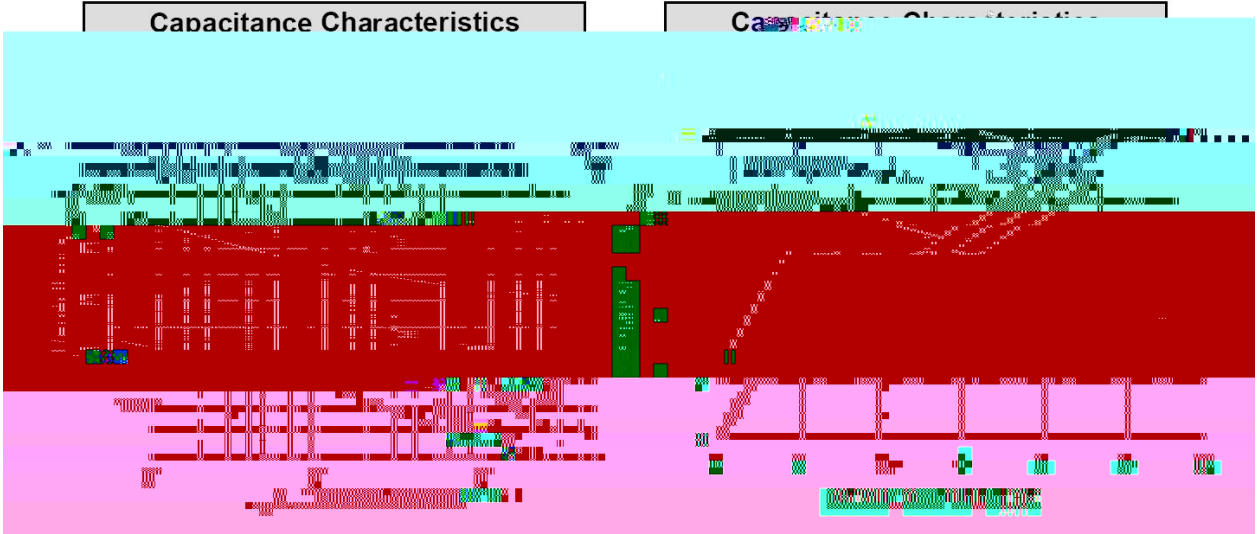
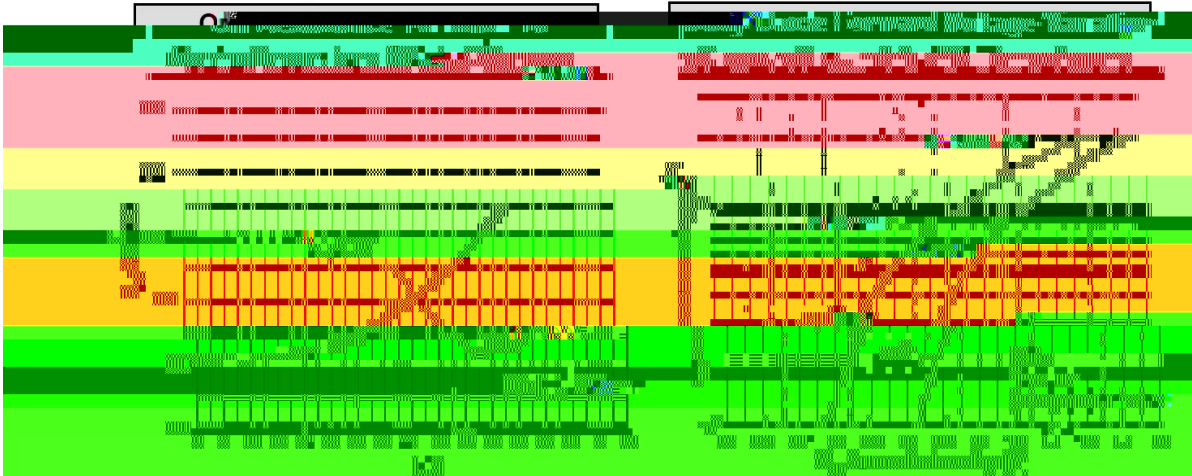
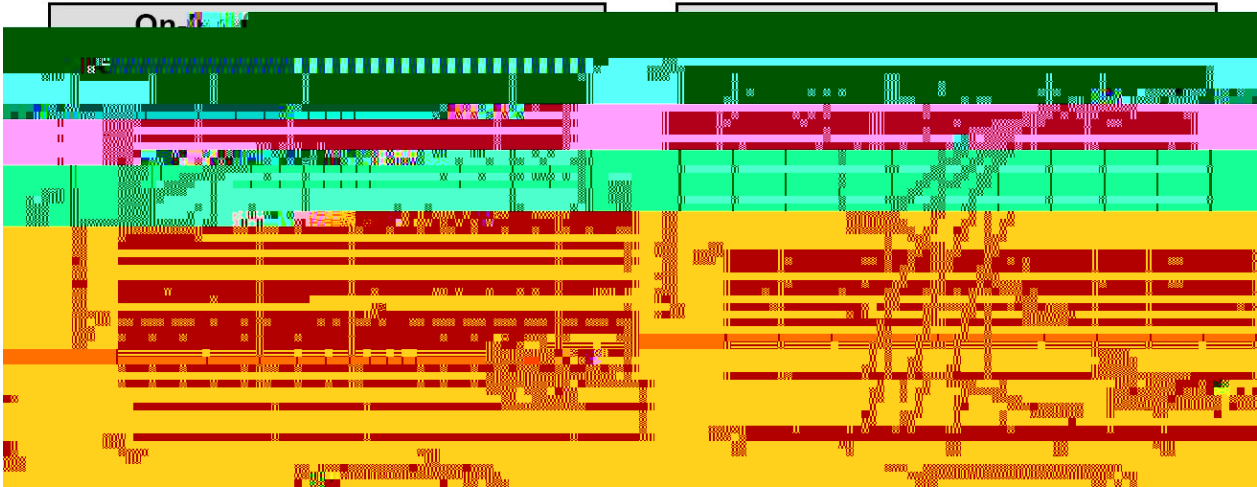
Parameter	Symbol	Rating	Unit
Drain Source Voltage	V_{DSS}	500	V
Gate-Source Voltage	V_{GSS}	± 30	V
Drain Continuous- Current(Note 1)	$I_D(T_c=25^\circ C)$	26	A

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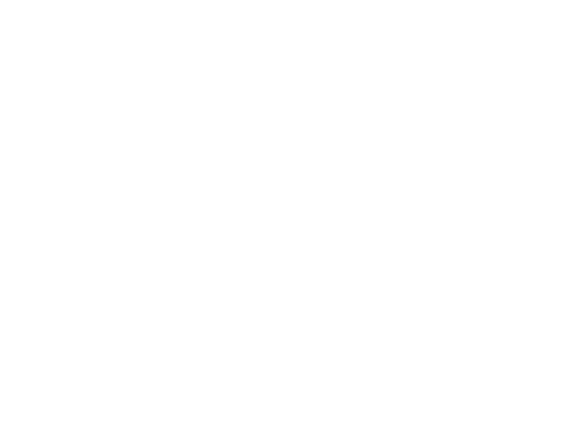
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V$ $I_D=250\mu A$	500			V
Drain-Source Leakage Current	I_{DSS}	$V_{DS}=500V$ $V_{GS}=0V$			1	

/ **Electrical Characteristic Curve**

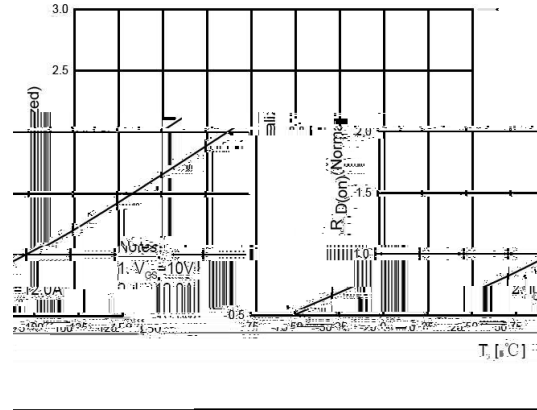


/ Electrical Characteristics(Ta=25)

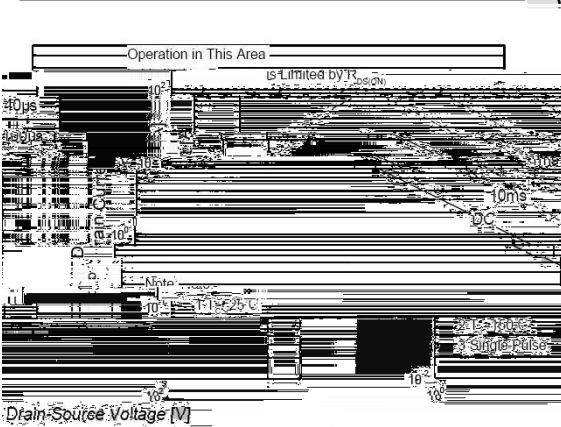
Breakdown Voltage Variation



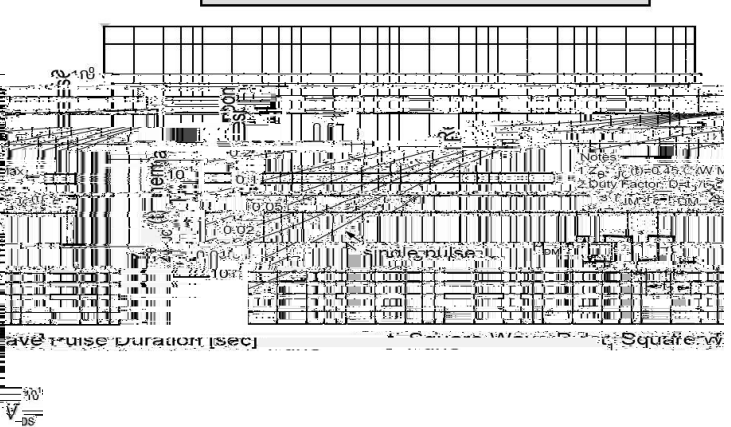
On-Resistance Variation vs. Temperature



Maximum Safe Operating Area

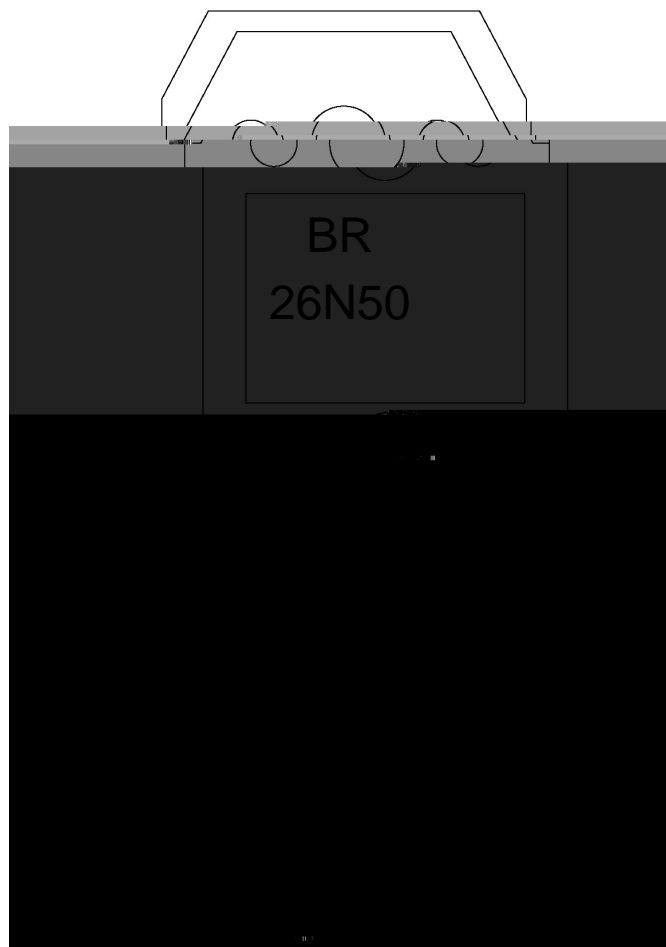


Transient Thermal Response Curve



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/ Marking Instructions



BR1

26N50

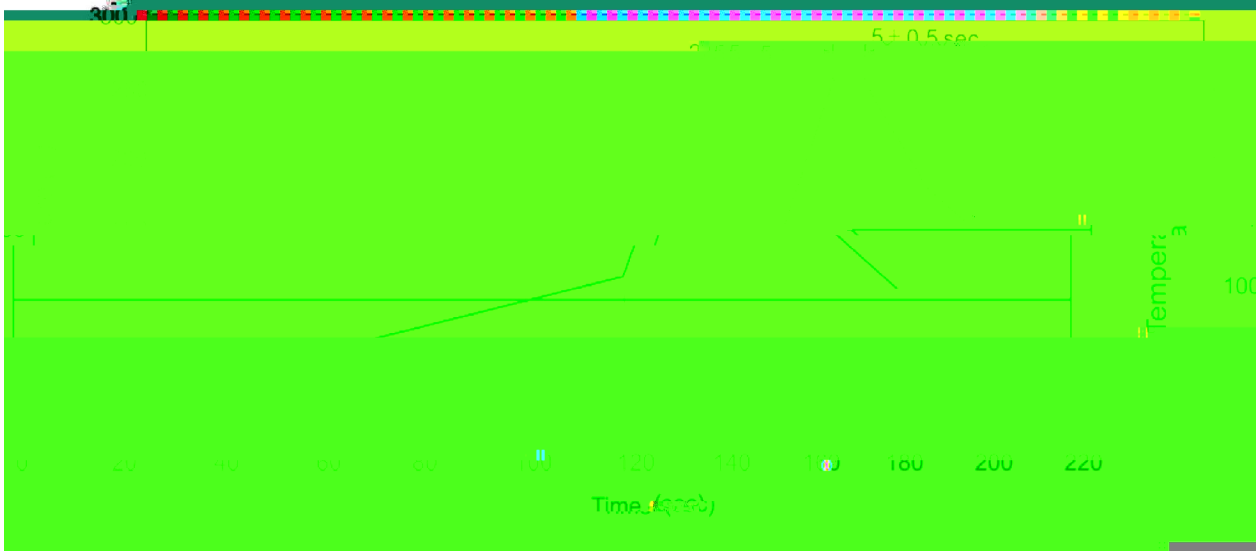
Note:

BR: Company Code.

26N50: 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.

/ TUBE

Package Type	Units					Dimension (unit mm ³)		

/ Notices