

# BRCS26N50PH

Rev.A Jul.-2019

## / Descriptions

N TO-3PH

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

## / Features

$R_{DS(ON)}$   $Q_g$

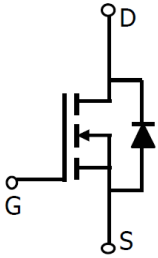
Fast Intrinsic Rectifier, Low  $R_{DS(ON)}$  and  $Q_g$ , Low Package Inductance

## / Applications

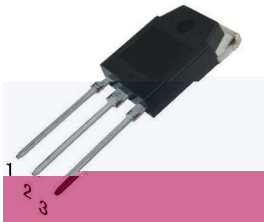
; : \$ :

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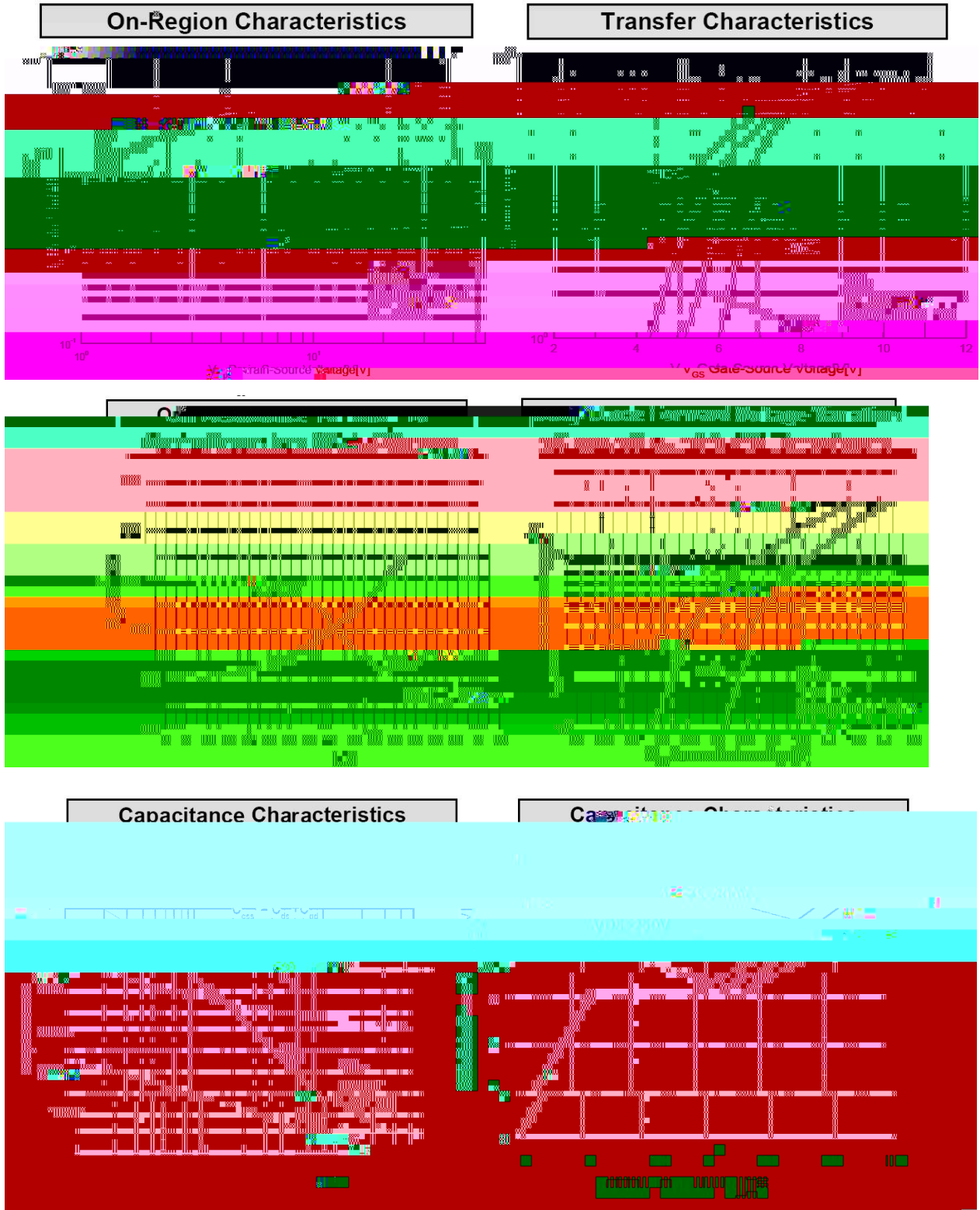
Parameter	Symbol	Rating	Unit
Drain Source Voltage	$V_{DSS}$	500	V
Gate-Source Voltage	$V_{GSS}$	$\pm 30$	V
Drain Continuous- Current(Note 1)	$I_D(T_c=25^\circ C)$	26	A

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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

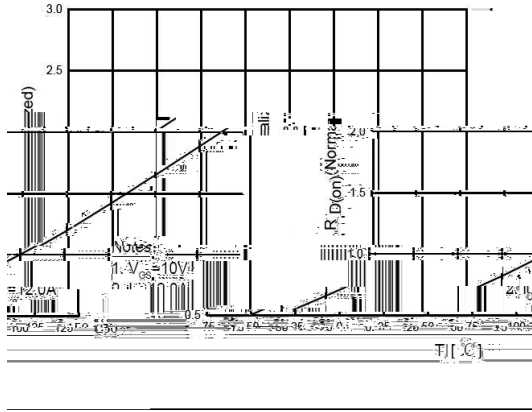


**/ Electrical Characteristics(Ta=25 )**

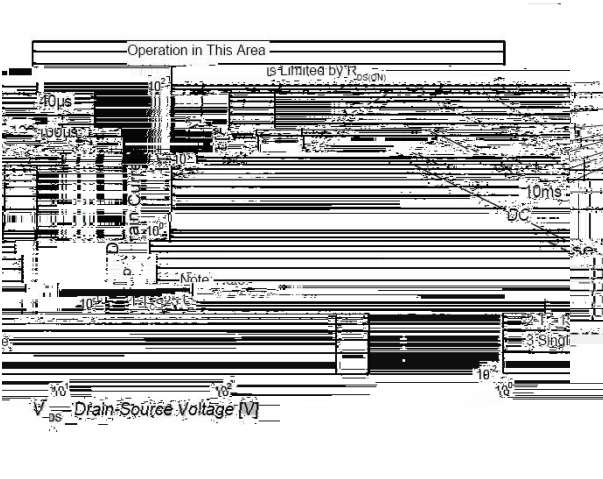
**Breakdown Voltage Variation**



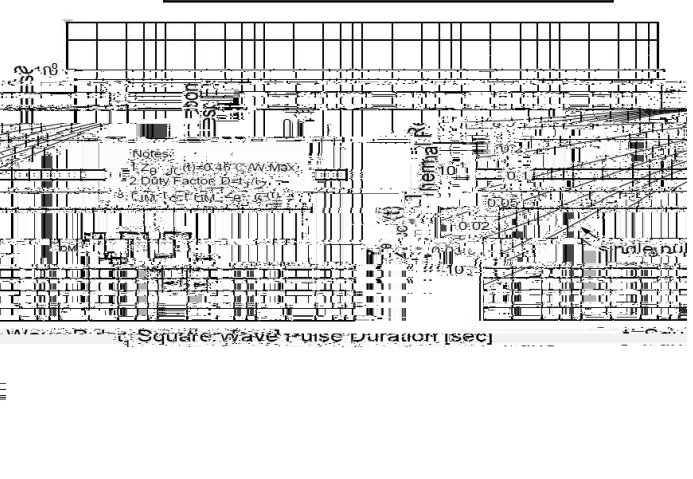
**On-Resistance Variation vs. Temperature**



**Maximum Safe Operating Area**

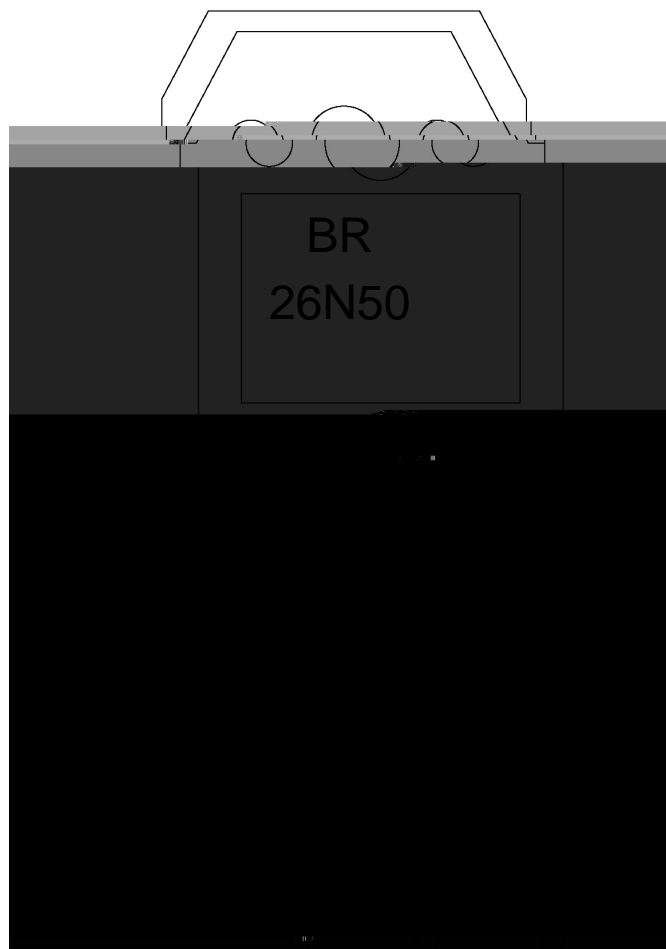


**Transient Thermal Response Curve**



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**/ Marking Instructions**



BR1

26N50

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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 <sup>3</sup> )		

**/ Notices**