

توصيف / Descriptions

N ٣ TO-3PH ٤ ١

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

مميزات / Features

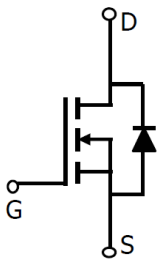
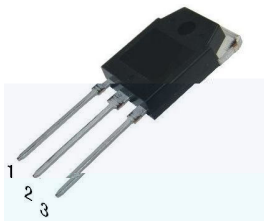
٥ ٦ $R_{DS(ON)}$ Q_g ٧ ٨ ٩

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

تطبيقات / Applications

١٠ ١١ ١٢ GF0GF ١٣ ١٤ ١٥

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

دائرة مكافئة / Equivalent Circuit**توصيل / Pinning**

PIN1 Gate PIN 2 Drain PIN 3 Source

تصنيفات وعلامات / h_{FE} Classifications & Marking

١٦ ١٧ See Marking Instructions.

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

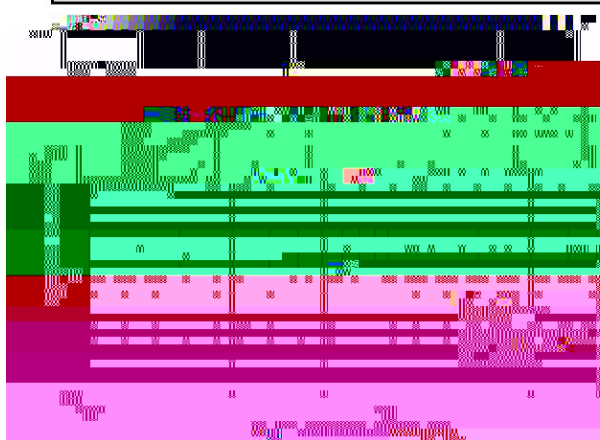
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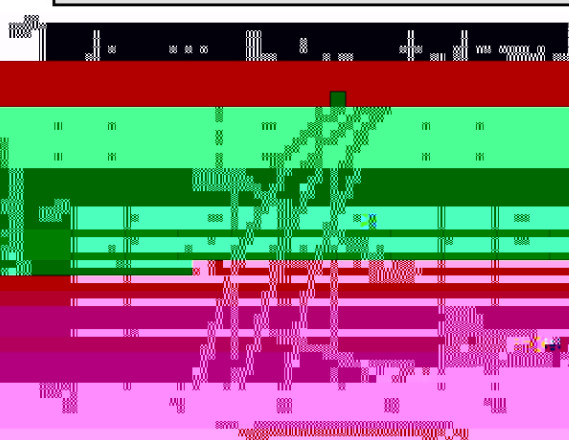
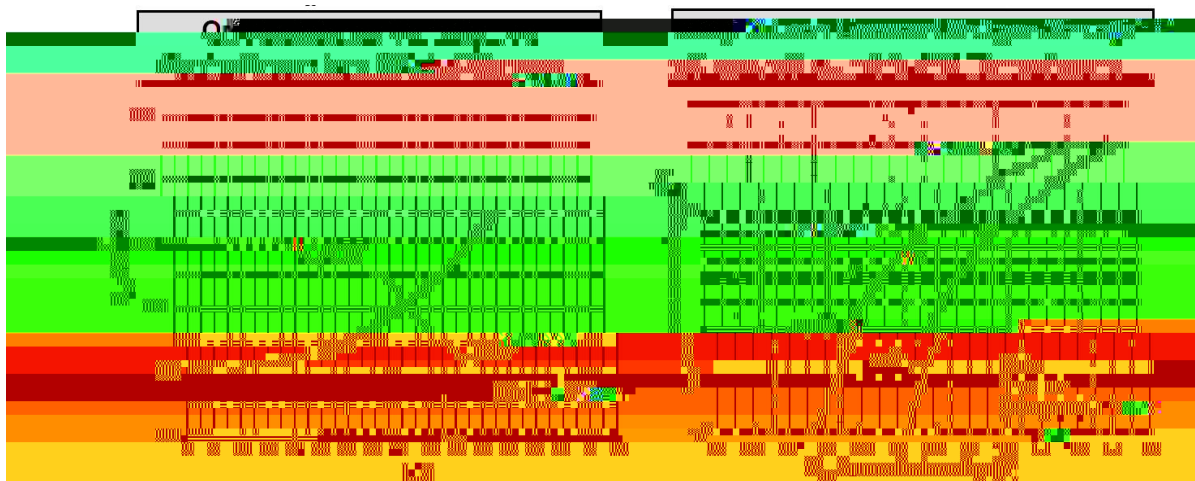
Parameter	Symbol	Test Conditions		Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V$	$I_D=250\mu A$	500			V
Drain-Source Leakage Current	I_{DSS}	$V_{DS}=500V$	$V_{GS}=0V$			1	

Electrical Characteristic Curve

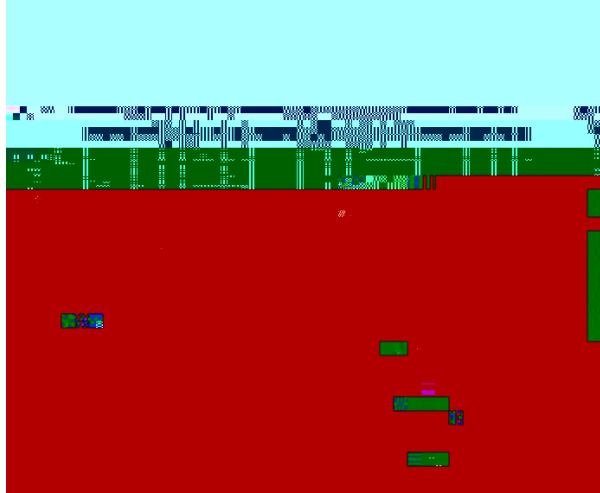
On-Region Characteristics



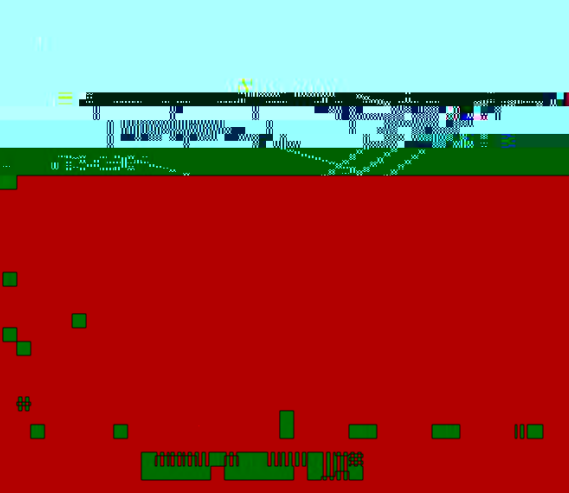
Transfer Characteristics



Capacitance Characteristics



Capacitance Characteristics

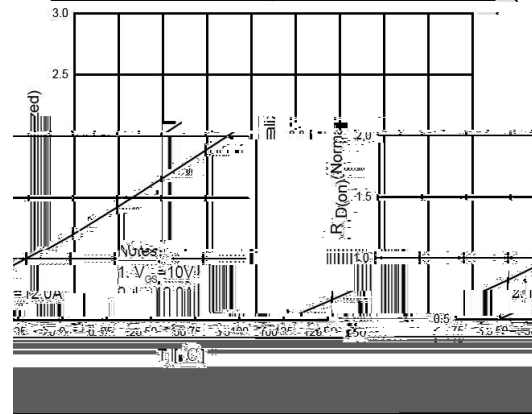


Electrical Characteristics(Ta=25℃)

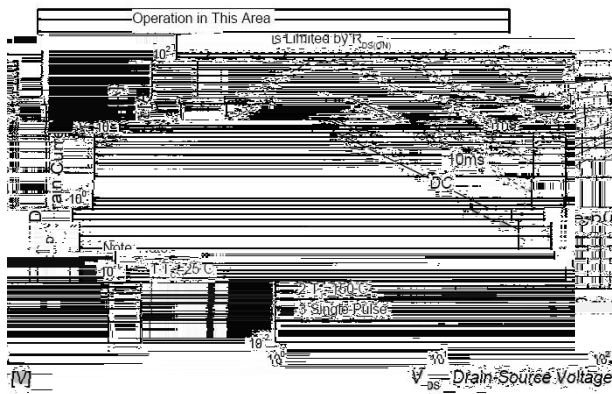
Breakdown Voltage Variation



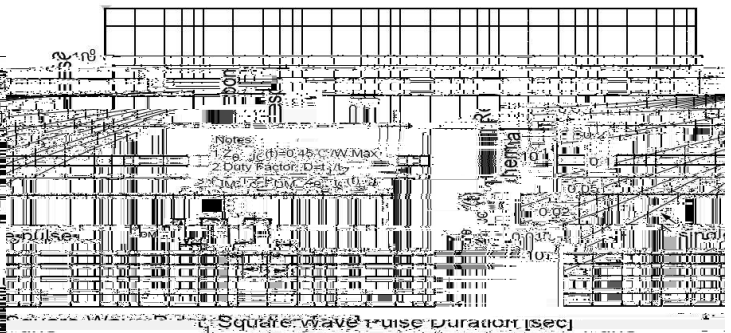
On-Resistance Variation vs. Temperature



Maximum Safe Operating Area



Transient Thermal Response Curve



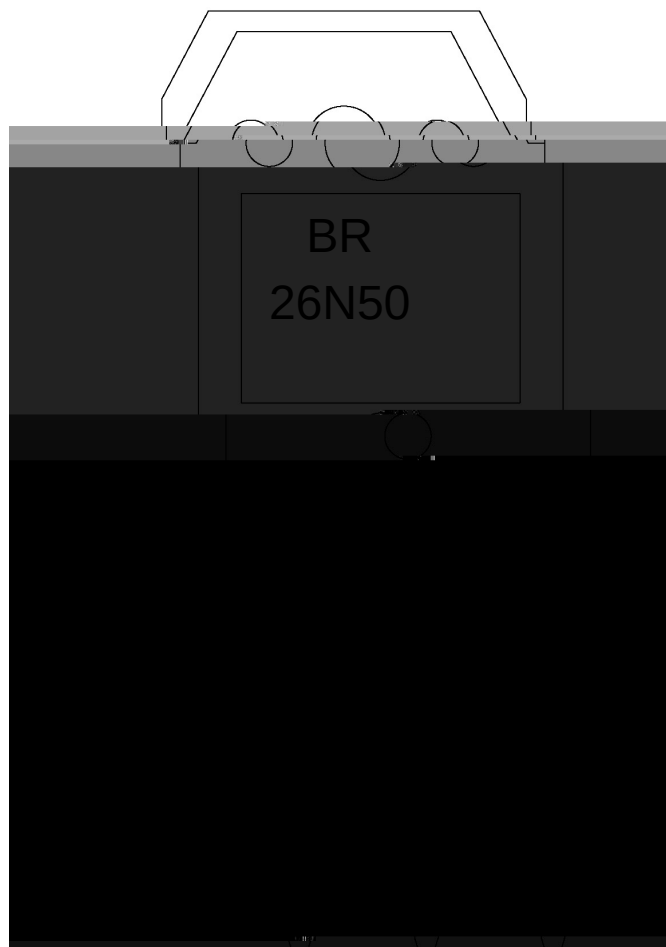
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Marking Instructions



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Note:

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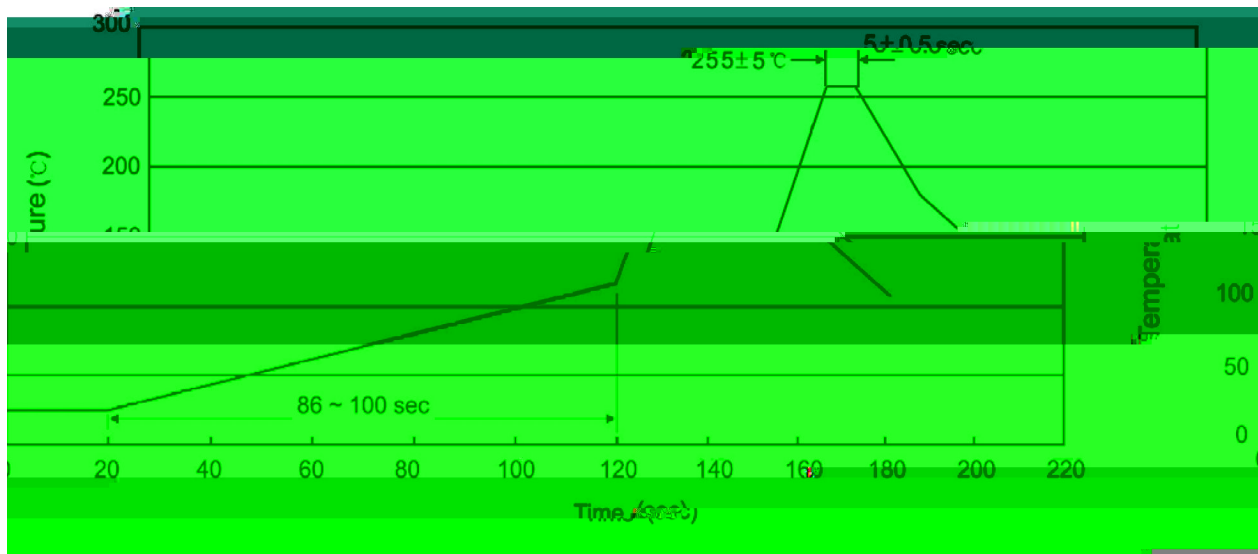
N

Company Code.

Product Type.

Lot No. Code, code change with Lot No.

Temperature Profile for Dip Soldering(Pb-Free)



1

25 150 60 90sec;

2 255±5 5±0.5sec;

3 2 10 /sec.

Note:

1.Preheating:25~150 , Time:60~90sec.

2.Peak Temp.:255±5 , Duration:5±0.5sec.

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