

RQ3E100BN

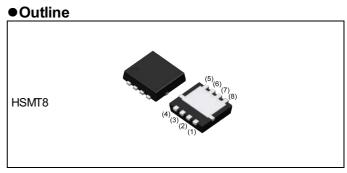
V _{DSS}	30V
R _{DS(on)} (Max.)	10.4mΩ
I _D	±21A
P _D	15W

Features

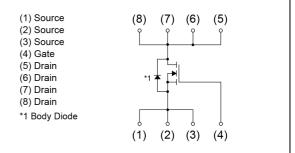
- 1) Low on resistance
- 2) High Power Package (HSMT8)
- 3) Pb-free lead plating ; RoHS compliant
- 4) Halogen Free

Application

Switching



●Inner circuit



Packaging specifications

	Packing	Embossed Tape
	Reel size (mm)	330
Туре	Tape width (mm)	12
	Quantity (pcs)	3000
	Taping code	ТВ
	Marking	E100BN

• Absolute maximum ratings (T_a = 25°C ,unless otherwise specified)

•	5			
Parameter	Symbol	Value	Unit	
Drain - Source voltage		V _{DSS}	30	V
Continuous droin surrent	$T_c = 25^{\circ}C$	I _D *1	±21	А
Continuous drain current	T _a = 25°C	Ι _D	±10	А
Pulsed drain current	۱ _{DP} *2	±40	А	
Gate - Source voltage	V _{GSS}	±20	V	
Avalanche current, single pulse		I _{AS} *3	12	А
Avalanche energy, single pulse		E_{AS}^{*3}	14	mJ
Power dissipation		P _D ^{*1}	15	W
		P _D ^{*4}	2.0	W
Junction temperature	Tj	150	°C	
Operating junction and storage te	T _{stg}	-55 to +150	°C	

•Thermal resistance

Deremeter	Sumbol	Values			Linit
Parameter	Symbol	Min.	Тур.	Max.	Unit
Thermal resistance, junction - case	R _{thJC} *1	-	-	8.3	°C/W
Thermal resistance, junction - ambient	R_{thJA}^{*4}	-	-	62.5	°C/W

• Electrical characteristics ($T_a = 25^{\circ}C$)

Devenuetor	Currente e l	Symbol Conditions		Values			
Parameter Sym		Conditions	Min.	Тур.	Max.	Unit	
Drain - Source breakdown voltage	V _{(BR)DSS}	V _{GS} = 0V, I _D = 1mA	30	-	-	V	
Breakdown voltage temperature coefficient	$\frac{\Delta V_{(BR)DSS}}{\Delta T_j}$	I _D = 1mA referenced to 25°C	-	21	-	mV/°C	
Zero gate voltage drain current	I _{DSS}	V _{DS} = 30V, V _{GS} = 0V	-	-	1	μA	
Gate - Source leakage current	I _{GSS}	V_{GS} = ±20V, V_{DS} = 0V	-	-	±100	nA	
Gate threshold voltage	$V_{GS(th)}$	V _{DS} = 10V, I _D = 1mA	1.0	-	2.5	V	
Gate threshold voltage temperature coefficient	$\frac{\Delta V_{GS(th)}}{\Delta T_j}$	I _D = 1mA referenced to 25°C	-	-3	-	mV/°C	
Static drain - source	D *5	V _{GS} = 10V, I _D = 10A	-	7.7	10.4		
on - state resistance	${\sf R}_{\sf DS(on)}^{*5}$	V _{GS} = 4.5V, I _D = 10A	-	11.0	15.3	mΩ	
Gate resistance	R _G	f=1MHz, open drain	-	2.5	-	Ω	
Forward Transfer Admittance	Y _{fs} * ⁵	V _{DS} = 5V, I _D = 10A	12	-	-	S	

*1Tc=25°C, Limited only by maximum temperature allowed.

*2 Pw \leq 10µs, Duty cycle \leq 1%

*3 L \simeq 0.1mH, V_{DD} = 24V, R_G = 25 Ω , Starting T_j = 25°C Fig.3-1,3-2

- *4 Mounted on a Cu board (40×40×0.8mm)
- *5 Pulsed



• Electrical characteristics ($T_a = 25^{\circ}C$)

Parameter	Symbol Conditions		Values			Unit
	Symbol	Conditions	Min.	Тур.	Max.	Unit
Input capacitance	C _{iss}	V _{GS} = 0V	-	1100	-	
Output capacitance	C _{oss}	V _{DS} = 15V	-	130	-	pF
Reverse transfer capacitance	C _{rss}	f = 1MHz	-	105	-	
Turn - on delay time	$t_{d(on)}^{*5}$	$V_{DD} \simeq 15V, V_{GS} = 10V$	-	10	-	
Rise time	t _r *5	I _D = 5A	-	28	-	
Turn - off delay time	t _{d(off)} *5	R _L ≃ 1.67Ω	-	44	-	ns
Fall time	t _f *5	R _G = 10Ω	-	10	-	

• Gate charge characteristics ($T_a = 25^{\circ}C$)

Deremeter	Symbol Conditions		Values			Unit	
Parameter			Min.	Тур.	Max.	Onit	
Tatal gata abarga	O *5		V _{GS} = 10V	-	22.0	-	
Total gate charge	Q_g^{*5}	v _g ° V _{DD} ≃ 15V		-	10.5	-	~
Gate - Source charge	Q_{gs}^{*5}	I _D = 10A	V _{GS} = 4.5V	-	3.0	-	nC
Gate - Drain charge	Q _{gd} *5			-	4.2	-	

•Body diode electrical characteristics (Source-Drain) (T_a = 25°C)

Deremeter	Sumbol	Conditions	Values			Linit	
Parameter	Symbol			Тур.	Max.	Unit	
Continuous forward current	۱ _s	$T = 25^{\circ}$	-	-	1.67	А	
Pulse forward current	I_{SP}^{*2}	T _a = 25°C	-	-	40	А	
Forward voltage	V_{SD}^{*5}	V _{GS} = 0V, I _S = 1.67A	-	-	1.2	V	



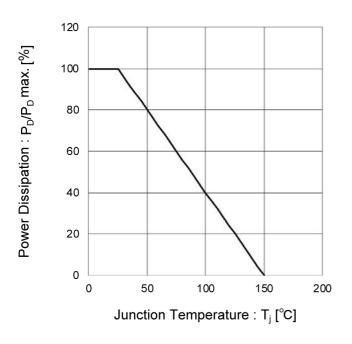


Fig.1 Power Dissipation Derating Curve

Fig.2 Maximum Safe Operating Area

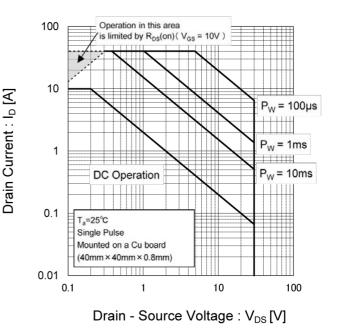
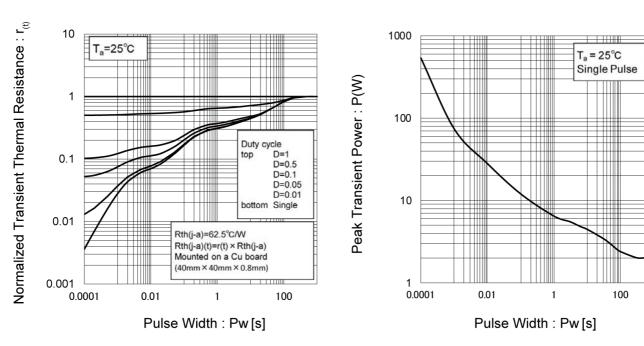


Fig.3 Normalized Transient Thermal Resistance vs. Pulse Width

Fig.4 Single Pulse Maximum Power dissipation





Electrical characteristic curves

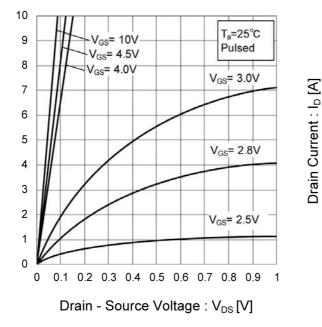


Fig.5 Typical Output Characteristics(I)

Fig.7 Breakdown Voltage vs. Junction Temperature

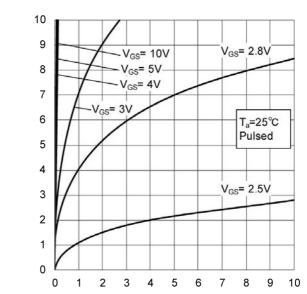
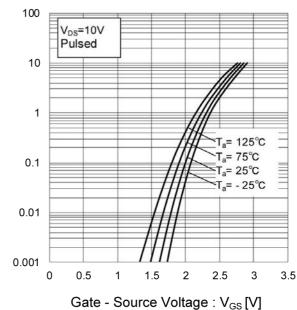


Fig.6 Typical Output Characteristics(II)



Drain - Source Voltage : V_{DS} [V]



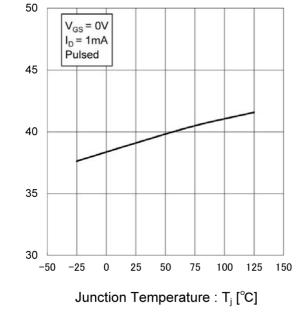
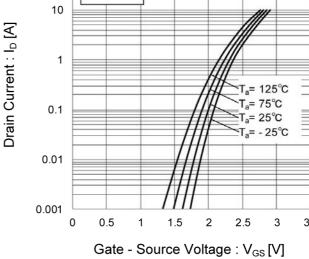


Fig.8 Typical Transfer Characteristics





• Electrical characteristic curves

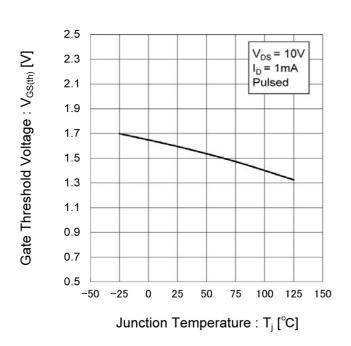


Fig.9 Gate Threshold Voltage vs. Junction Temperature

Fig.10 Forward Transfer Admittance vs. Drain Current

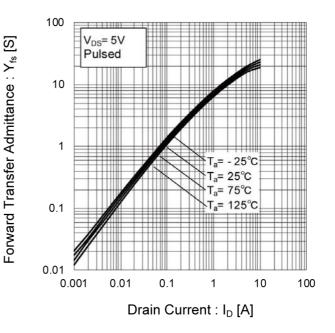
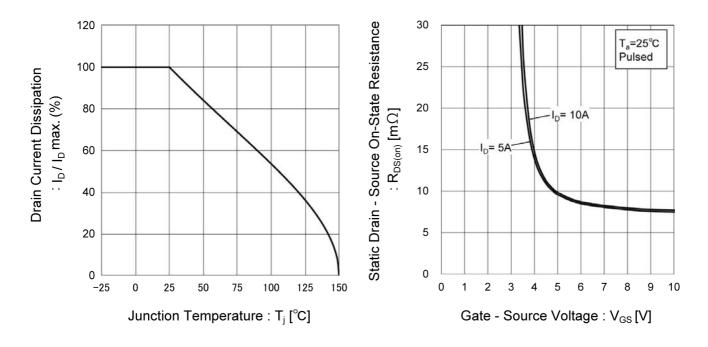


Fig.11 Drain Current Derating Curve

Fig.12 Static Drain - Source On - State Resistance vs. Gate Source Voltage





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1 0.1

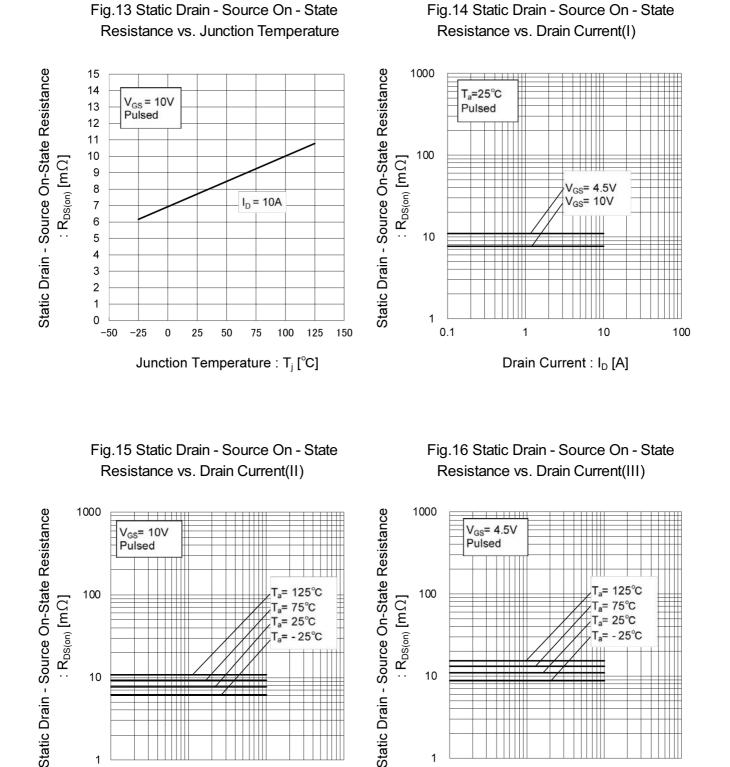
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Drain Current : I_D [A]

Electrical characteristic curves



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7/10

100

10

1

0.1

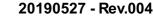
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Drain Current : I_D [A]

= 25°C 25°C

10



T_= 25°C

10

100

- 25°C

•Electrical characteristic curves

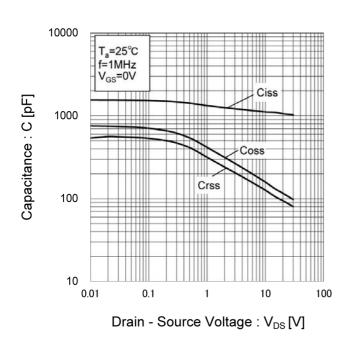


Fig.17 Typical Capacitance vs. Drain -Source Voltage

Fig.18 Switching Characteristics

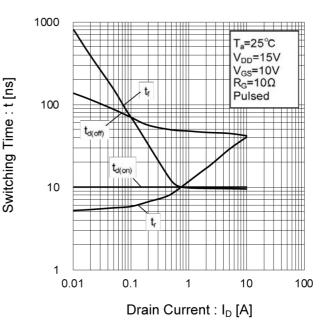


Fig.19 Dynamic Input Characteristics



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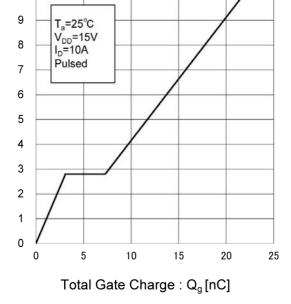
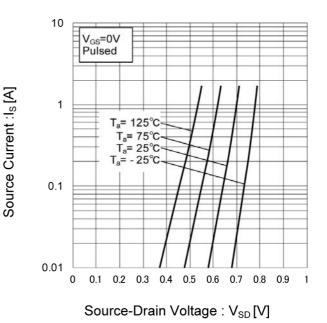


Fig.20 Source Current vs. Source Drain Voltage





Measurement circuits

Fig.1-1 Switching Time Measurement Circuit

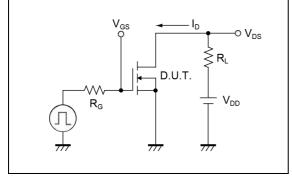


Fig.2-1 Gate Charge Measurement Circuit

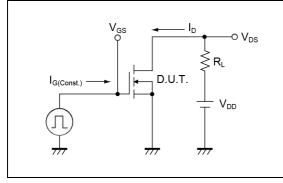


Fig.3-1 Avalanche Measurement Circuit

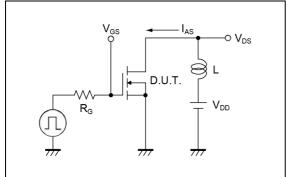


Fig.1-2 Switching Waveforms

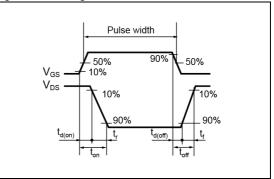


Fig.2-2 Gate Charge Waveform

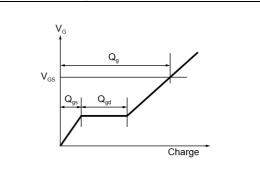
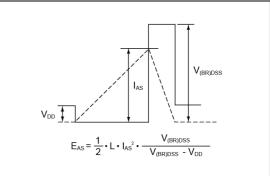


Fig.3-2 Avalanche Waveform

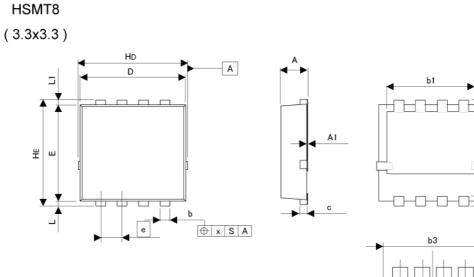


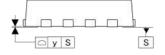
Notice

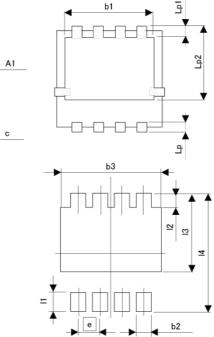
This product might cause chip aging and breakdown under the large electrified environment. Please consider to design ESD protection circuit.



Dimensions







Pattern of terminal position areas [Not a pattern of soldering pads]

MIN MAX MIN MAX A 0.70 0.90 0.028 0.035 A1 0.00 0.05 0.000 0.002 b 0.27 0.37 0.011 0.015 b1 2.50 2.70 0.098 0.106 c 0.10 0.30 0.004 0.012 D 3.10 3.30 0.122 0.130 E 2.90 3.10 0.114 0.122 e 0.65 0.026 HD HE 3.20 3.40 0.126 0.134 L 0.07 0.25 0.003 0.010 L1 0.07 0.25 0.003 0.010 L1 0.07 0.25 0.003 0.010 Lp 0.20 0.40 0.008 0.016 Lp1 0.25 0.45 0.010 0.018 Lp2 2.20 2.40 0.087 0.094 x		MILIME	TERS	INC	HES
A1 0.00 0.05 0.000 0.002 b 0.27 0.37 0.011 0.015 b1 2.50 2.70 0.098 0.106 c 0.10 0.30 0.004 0.012 D 3.10 3.30 0.122 0.130 E 2.90 3.10 0.114 0.122 e 0.65 0.026 HD 3.20 3.40 0.126 0.134 L 0.07 0.25 0.003 0.010 L1 0.07 0.25 0.003 0.010 Lp 0.20 0.40 0.008 0.016 Lp1 0.25 0.45 0.010 0.018 Lp2 2.20 2.40 0.087 0.094 x - 0.10 - 0.004 y - 0.10 - 0.014 y - 0.10 - 0.019 b3 -		MIN	MAX	MIN	MAX
b 0.27 0.37 0.011 0.015 b1 2.50 2.70 0.098 0.106 c 0.10 0.30 0.004 0.012 D 3.10 3.30 0.122 0.130 E 2.90 3.10 0.114 0.122 e 0.65 0.026 HD 3.20 3.40 0.126 0.134 L 0.07 0.25 0.003 0.010 L1 0.07 0.25 0.003 0.010 Lp 0.20 0.40 0.008 0.016 Lp1 0.25 0.45 0.010 0.018 Lp2 2.20 2.40 0.087 0.094 x - 0.10 - 0.004 y - 0.10 - 0.004 y - 0.10 - 0.019 b3 - 2.70 - 0.106 11 - 0.50	A	0.70	0.90	0.028	0.035
b1 2.50 2.70 0.098 0.106 c 0.10 0.30 0.004 0.012 D 3.10 3.30 0.122 0.130 E 2.90 3.10 0.114 0.122 e 0.65 0.026 HD 3.20 3.40 0.126 0.134 HE 3.20 3.40 0.126 0.134 L 0.07 0.25 0.003 0.010 L1 0.07 0.25 0.003 0.010 Lp 0.20 0.40 0.008 0.016 Lp1 0.25 0.45 0.010 0.018 Lp2 2.20 2.40 0.087 0.094 x - 0.10 - 0.004 y - 0.10 - 0.004 y - 0.10 - 0.019 b3 - 2.70 - 0.106 11 - <t< td=""><td>A1</td><td>0.00</td><td>0.05</td><td>0.000</td><td>0.002</td></t<>	A1	0.00	0.05	0.000	0.002
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	b	0.27	0.37	0.011	0.015
D 3.10 3.30 0.122 0.130 E 2.90 3.10 0.114 0.122 e 0.65 0.026 HD 3.20 3.40 0.126 0.134 HE 3.20 3.40 0.126 0.134 L 0.07 0.25 0.003 0.010 L1 0.07 0.25 0.003 0.010 Lp 0.20 0.40 0.008 0.016 Lp1 0.25 0.45 0.010 0.018 Lp2 2.20 2.40 0.087 0.094 x - 0.10 - 0.004 y - 0.10 - 0.004 MIN MAX MIN MAX b2 - 0.47 - 0.019 b3 - 2.70 - 0.106 11 - 0.55 - 0.020	b1	2.50	2.70	0.098	0.106
E 2.90 3.10 0.114 0.122 e 0.65 0.026 HD 3.20 3.40 0.126 0.134 HE 3.20 3.40 0.126 0.134 L 0.07 0.25 0.003 0.010 L1 0.07 0.25 0.003 0.010 Lp 0.20 0.40 0.008 0.016 Lp1 0.25 0.45 0.010 0.018 Lp2 2.20 2.40 0.087 0.094 x - 0.10 - 0.004 y - 0.10 - 0.004 MIN MAX MIN MAX b2 - 0.47 - 0.019 b3 - 2.70 - 0.106 11 - 0.55 - 0.020	с	0.10	0.30	0.004	0.012
e 0.65 0.026 HD 3.20 3.40 0.126 0.134 HE 3.20 3.40 0.126 0.134 L 0.07 0.25 0.003 0.010 L1 0.07 0.25 0.003 0.010 Lp 0.20 0.40 0.008 0.016 Lp2 2.20 2.40 0.087 0.094 x - 0.10 - 0.004 y - 0.10 - 0.004 DIM MILIMETERS INCHES b2 - 0.47 - 0.019 b3 - 2.70 - 0.106 11 - 0.50 - 0.020 12 - 0.55 - 0.022	D	3.10	3.30	0.122	0.130
HD 3.20 3.40 0.126 0.134 HE 3.20 3.40 0.126 0.134 L 0.07 0.25 0.003 0.010 L1 0.07 0.25 0.003 0.010 Lp 0.20 0.40 0.008 0.016 Lp1 0.25 0.45 0.010 0.018 Lp2 2.20 2.40 0.087 0.094 x - 0.10 - 0.004 y - 0.47 - 0.019 b3 - 2.70 - 0.106 11 - 0.50 - 0.020 12 - 0.55 - 0.022	E	2.90	3.10	0.114	0.122
HE 3.20 3.40 0.126 0.134 L 0.07 0.25 0.003 0.010 L1 0.07 0.25 0.003 0.010 Lp 0.20 0.40 0.008 0.016 Lp1 0.25 0.45 0.010 0.018 Lp2 2.20 2.40 0.087 0.094 x - 0.10 - 0.004 y - 0.47 - 0.019 b3 - 2.70 - 0.106 11 - 0.50 - 0.020 12 - 0.55 - 0.022	е	0.	65	0.0)26
L 0.07 0.25 0.003 0.010 L1 0.07 0.25 0.003 0.010 Lp 0.20 0.40 0.008 0.016 Lp1 0.25 0.45 0.010 0.018 Lp2 2.20 2.40 0.087 0.094 x - 0.10 - 0.004 y - 0.10 - 0.004 MIN MAX MIN MAX b2 - 0.47 - 0.019 b3 - 2.70 - 0.106 11 - 0.50 - 0.020 12 - 0.55 - 0.022	HD	3.20	3.40	0.126	0.134
L1 0.07 0.25 0.003 0.010 Lp 0.20 0.40 0.008 0.016 Lp1 0.25 0.45 0.010 0.018 Lp2 2.20 2.40 0.087 0.094 x - 0.10 - 0.004 y - 0.10 - 0.004 DIM MILIMETERS INCHES DIM MAX MIN MAX b2 - 0.47 - 0.019 b3 - 2.70 - 0.106 11 - 0.50 - 0.020 12 - 0.55 - 0.022	HE	3.20	3.40	0.126	0.134
Lp 0.20 0.40 0.008 0.016 Lp1 0.25 0.45 0.010 0.018 Lp2 2.20 2.40 0.087 0.094 x - 0.10 - 0.004 y - 0.10 - 0.004 MILIMETERS INCHES DIM MAX MIN MAX b2 - 0.47 - 0.019 b3 - 2.70 - 0.106 11 - 0.50 - 0.020 12 - 0.55 - 0.022	L	0.07	0.25	0.003	0.010
MILIMETERS INCHES MILIMETERS INCHES MIN MAX MIN MAX 0.47 - 0.10 - 0.10 - 0.10 - 0.10 - 0.10 - 0.10 - 0.10 - 0.10 - 0.10 - 0.10 - 0.10 - 0.10 - 0.10 - 0.10 - 0.10 - 0.10 - 0.47 - 0.47 - 0.106 - 11 - 0.50 - 12 - 0.55	L1	0.07	0.25	0.003	0.010
Lp2 2.20 2.40 0.087 0.094 x - 0.10 - 0.004 y - 0.10 - 0.004 DIM MILIMETERS INCHES b2 - 0.47 - 0.019 b3 - 2.70 - 0.106 11 - 0.55 - 0.022	Lp	0.20	0.40	0.008	0.016
x - 0.10 - 0.004 y - 0.10 - 0.004 DIM MILIMETERS INCHES b2 - 0.47 - 0.019 b3 - 2.70 - 0.106 11 - 0.50 - 0.020 12 - 0.55 - 0.022	Lp1	0.25	0.45	0.010	0.018
y - 0.10 - 0.004 MILIMETERS INCHES MIN MAX MIN MAX b2 - 0.47 - 0.019 b3 - 2.70 - 0.106 11 - 0.50 - 0.020 12 - 0.55 - 0.022	Lp2	2.20	2.40	0.087	0.094
MILIMETERS INCHES MIN MAX MIN MAX b2 - 0.47 - 0.019 b3 - 2.70 - 0.106 11 - 0.50 - 0.020 12 - 0.55 - 0.022	x		0.10	-	0.004
MIN MAX MIN MAX b2 - 0.47 - 0.019 b3 - 2.70 - 0.106 11 - 0.50 - 0.020 12 - 0.55 - 0.022	у	(H)	0.10		0.004
MIN MAX MIN MAX b2 - 0.47 - 0.019 b3 - 2.70 - 0.106 11 - 0.50 - 0.020 12 - 0.55 - 0.022		MILIME	TERS	INC	HES
b3 - 2.70 - 0.106 11 - 0.50 - 0.020 12 - 0.55 - 0.022		MIN	MAX	MIN	MAX
11 - 0.50 - 0.020 12 - 0.55 - 0.022	b2	19 <u>1</u> 25	0.47		0.019
12 - 0.55 - 0.022	b3	373	2.70		0.106
	11	6 2 0	0.50	1 4 1	0.020
13 - 2.40 - 0.094	12	1	0.55		0.022
	13	2. 5 5	2.40	55	0.094

Dimension in mm/inches

14



0.134

3.40

Notice

Precaution on using ROHM Products

1. Our Products are designed and manufactured for application in ordinary electronic equipment (such as AV equipment, OA equipment, telecommunication equipment, home electronic appliances, amusement equipment, etc.). If you intend to use our Products in devices requiring extremely high reliability (such as medical equipment (^{Note 1)}, transport equipment, traffic equipment, aircraft/spacecraft, nuclear power controllers, fuel controllers, car equipment including car accessories, safety devices, etc.) and whose malfunction or failure may cause loss of human life, bodily injury or serious damage to property ("Specific Applications"), please consult with the ROHM sales representative in advance. Unless otherwise agreed in writing by ROHM in advance, ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties arising from the use of any ROHM's Products for Specific Applications.

(Note1) Medical Equipment Classification of the Specific Applications

JAPAN	USA	EU	CHINA
CLASSⅢ	CLASSⅢ	CLASS II b	CLASSII
CLASSⅣ	CLASSII	CLASSⅢ	CLASSI

- 2. ROHM designs and manufactures its Products subject to strict quality control system. However, semiconductor products can fail or malfunction at a certain rate. Please be sure to implement, at your own responsibilities, adequate safety measures including but not limited to fail-safe design against the physical injury, damage to any property, which a failure or malfunction of our Products may cause. The following are examples of safety measures:
 - [a] Installation of protection circuits or other protective devices to improve system safety
 - [b] Installation of redundant circuits to reduce the impact of single or multiple circuit failure
- 3. Our Products are designed and manufactured for use under standard conditions and not under any special or extraordinary environments or conditions, as exemplified below. Accordingly, ROHM shall not be in any way responsible or liable for any damages, expenses or losses arising from the use of any ROHM's Products under any special or extraordinary environments or conditions. If you intend to use our Products under any special or extraordinary environments or conditions (as exemplified below), your independent verification and confirmation of product performance, reliability, etc, prior to use, must be necessary:
 - [a] Use of our Products in any types of liquid, including water, oils, chemicals, and organic solvents
 - [b] Use of our Products outdoors or in places where the Products are exposed to direct sunlight or dust
 - [c] Use of our Products in places where the Products are exposed to sea wind or corrosive gases, including Cl₂, H₂S, NH₃, SO₂, and NO₂
 - [d] Use of our Products in places where the Products are exposed to static electricity or electromagnetic waves
 - [e] Use of our Products in proximity to heat-producing components, plastic cords, or other flammable items
 - [f] Sealing or coating our Products with resin or other coating materials
 - [g] Use of our Products without cleaning residue of flux (Exclude cases where no-clean type fluxes is used. However, recommend sufficiently about the residue.); or Washing our Products by using water or water-soluble cleaning agents for cleaning residue after soldering
 - [h] Use of the Products in places subject to dew condensation
- 4. The Products are not subject to radiation-proof design.
- 5. Please verify and confirm characteristics of the final or mounted products in using the Products.
- 6. In particular, if a transient load (a large amount of load applied in a short period of time, such as pulse, is applied, confirmation of performance characteristics after on-board mounting is strongly recommended. Avoid applying power exceeding normal rated power; exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.
- 7. De-rate Power Dissipation depending on ambient temperature. When used in sealed area, confirm that it is the use in the range that does not exceed the maximum junction temperature.
- 8. Confirm that operation temperature is within the specified range described in the product specification.
- 9. ROHM shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this document.

Precaution for Mounting / Circuit board design

- 1. When a highly active halogenous (chlorine, bromine, etc.) flux is used, the residue of flux may negatively affect product performance and reliability.
- 2. In principle, the reflow soldering method must be used on a surface-mount products, the flow soldering method must be used on a through hole mount products. If the flow soldering method is preferred on a surface-mount products, please consult with the ROHM representative in advance.

For details, please refer to ROHM Mounting specification

Precautions Regarding Application Examples and External Circuits

- 1. If change is made to the constant of an external circuit, please allow a sufficient margin considering variations of the characteristics of the Products and external components, including transient characteristics, as well as static characteristics.
- 2. You agree that application notes, reference designs, and associated data and information contained in this document are presented only as guidance for Products use. Therefore, in case you use such information, you are solely responsible for it and you must exercise your own independent verification and judgment in the use of such information contained in this document. ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties arising from the use of such information.

Precaution for Electrostatic

This Product is electrostatic sensitive product, which may be damaged due to electrostatic discharge. Please take proper caution in your manufacturing process and storage so that voltage exceeding the Products maximum rating will not be applied to Products. Please take special care under dry condition (e.g. Grounding of human body / equipment / solder iron, isolation from charged objects, setting of lonizer, friction prevention and temperature / humidity control).

Precaution for Storage / Transportation

- 1. Product performance and soldered connections may deteriorate if the Products are stored in the places where:
 - [a] the Products are exposed to sea winds or corrosive gases, including Cl₂, H₂S, NH₃, SO₂, and NO₂
 - [b] the temperature or humidity exceeds those recommended by ROHM
 - [c] the Products are exposed to direct sunshine or condensation
 - [d] the Products are exposed to high Electrostatic
- 2. Even under ROHM recommended storage condition, solderability of products out of recommended storage time period may be degraded. It is strongly recommended to confirm solderability before using Products of which storage time is exceeding the recommended storage time period.
- 3. Store / transport cartons in the correct direction, which is indicated on a carton with a symbol. Otherwise bent leads may occur due to excessive stress applied when dropping of a carton.
- 4. Use Products within the specified time after opening a humidity barrier bag. Baking is required before using Products of which storage time is exceeding the recommended storage time period.

Precaution for Product Label

A two-dimensional barcode printed on ROHM Products label is for ROHM's internal use only.

Precaution for Disposition

When disposing Products please dispose them properly using an authorized industry waste company.

Precaution for Foreign Exchange and Foreign Trade act

Since concerned goods might be fallen under listed items of export control prescribed by Foreign exchange and Foreign trade act, please consult with ROHM in case of export.

Precaution Regarding Intellectual Property Rights

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General Precaution

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RQ3E100BN - Web Page

Part Number	RQ3E100BN
Package	HSMT8
Unit Quantity	3000
Minimum Package Quantity	3000
Packing Type	Taping
Constitution Materials List	inquiry
RoHS	Yes



单击下面可查看定价,库存,交付和生命周期等信息

>>ROHM Semiconductor(罗姆)