

/ Absolute Maximum Ratings(Ta=25)

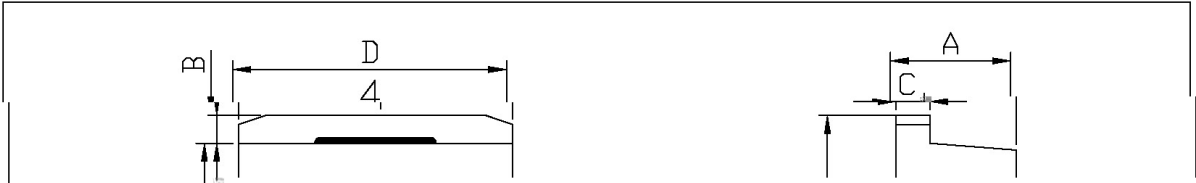
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	600	V
Drain Current	$I_D(T_c=25)$	4.0	A
Drain Current	$I_D(T_c=100)$	2.5	A
Drain Current - Pulsed	I_{DM}	16	A
Gate-Source Voltage	V_{GSS}	± 30	V
Single Pulsed Avalanche Energy	E_{AS}	240	mJ
Repetitive Avalanche Energy	E_{AR}	10	mJ
Avalanche Current	I_{AR}	4.0	A
Power Dissipation	$P_D(T_c=25)$	100	W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to 150	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V$ $I_D=250$ A	600			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=600V$ $V_{GS}=0V$			10	A
		$V_{DS}=480V$ $T_C=125$			100	A
Gate-Body Leakage Current, Forward	I_{GSS}	$V_{GS}=\pm 30V$ $V_{DS}=0V$			± 0.1	A
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=250$ A	2.0		4.0	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10V$ $I_D=2.0A$		2.0	2.5	
Forward Transconductance	g_{FS}	$V_{DS}=40V$ $I_D=2.0A$		4.7		S
Drain-Source Diode Forward Voltage	V_{SD}	$V_{GS}=0V$ $I_S=4.0A$			1.4	V
Input Capacitance	C_{iss}	$V_{DS}=25V$ $V_{GS}=0V$ $f=1.0MHz$		545	710	pF
Output Capacitance	C_{oss}			60	80	pF
Reverse Transfer Capacitance	C_{rss}			8	11	pF
Turn-On Delay Time	$t_{d(on)}$	$V_{DD}=300V$ $I_D=4.0A$ $R_G=25$		10	30	ns
Turn-On Rise Time	t_r			35	80	ns
Turn-Off Delay Time	$t_{d(off)}$			45	100	ns
Turn-Off Fall Time	t_f			40	90	ns

BRB4N60

/ Package Dimensions

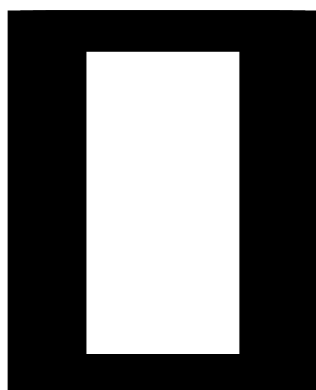
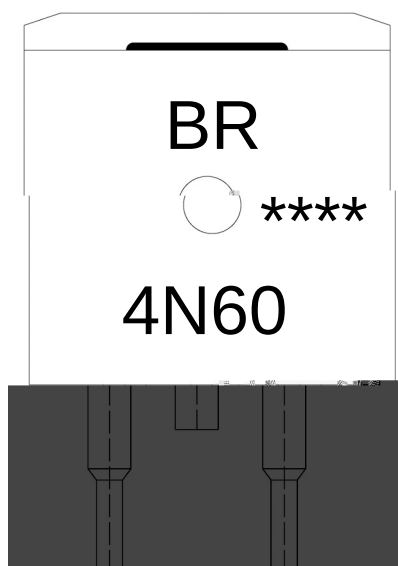


单位: mm

Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	4.30	4.70	e1	2.34	2.74
B	1.00	1.40	e2	4.88	5.28
b	0.70	0.90	L1	15.00	16.00
b1	1.15	1.35	L2	2.24	2.54
b2	0.40	0.60	L3	1.20	1.40
C	1.20	1.40			
D	9.80	10.20			

TP-263

/ Marking Instructions



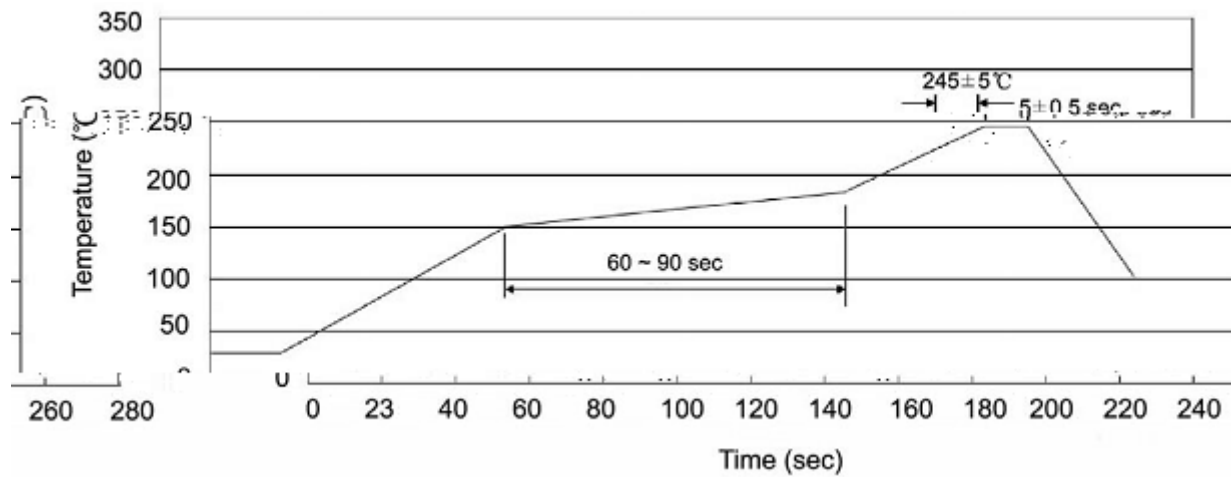
Note:

BR: Company Code

4N60: 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 | 245 | 5 | 5 | 0.5sec; | 2.Peak Temp.:245 5 , Duration:5 0.5sec. |
| 3 | | | 2 | 10 /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260 5 10 1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量	Dimension 包装尺寸 (unit: mm ³)
只 卷盘		