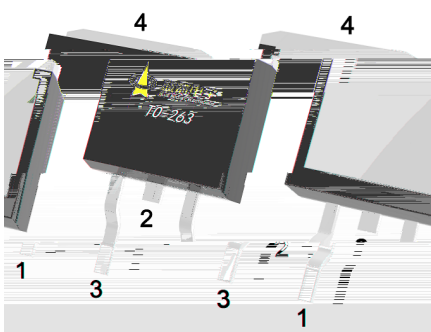
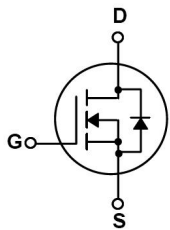


TO-263            N  
 N-CHANNEL MOSFET in a TO-263 Plastic Package.

$V_{DS}=100V$      $I_D=73A$   
 $R_{DS(ON)}@10V$  8m (Typ.6.2m )  
 $R_{DS(ON)}@4.5V$  12m (Typ.8.2m )  
 HF Product.

PFC

These devices are well suited for high efficient switched mode power supplies Active power factor correction, electronic lamp ballast based on half bridge topology.



PIN1 G            PIN 2 4 D            PIN 3 S

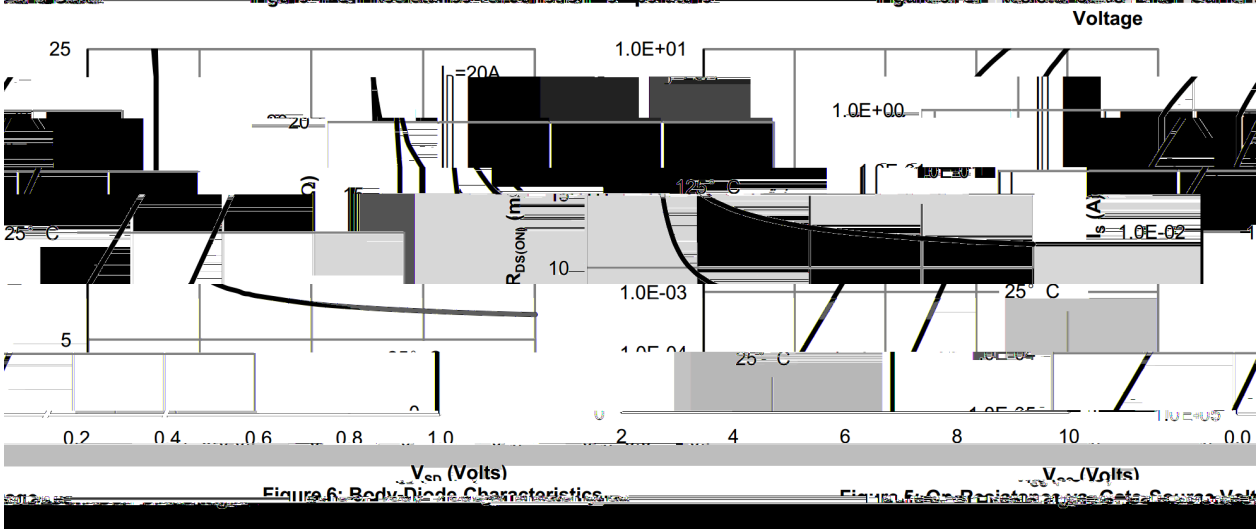
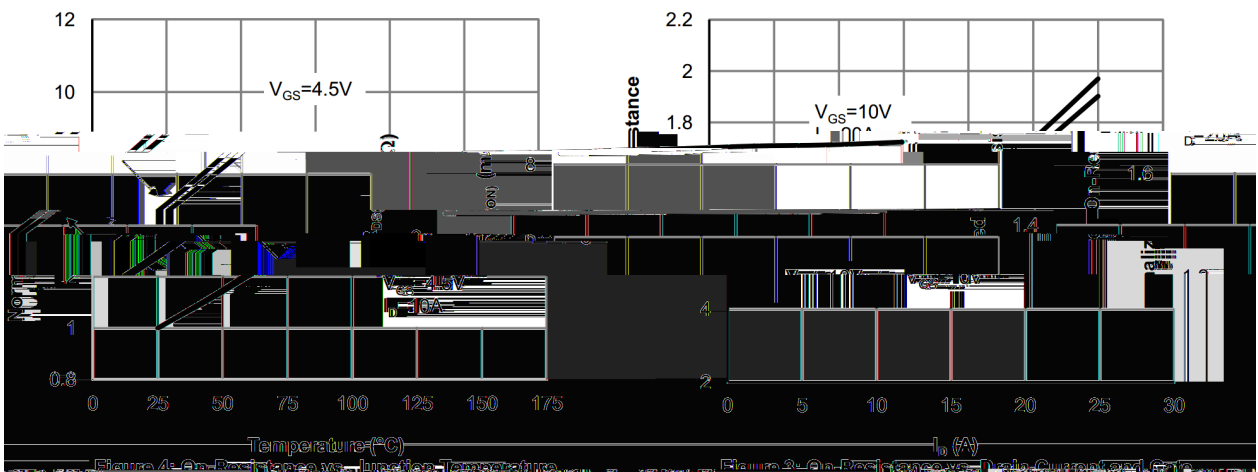
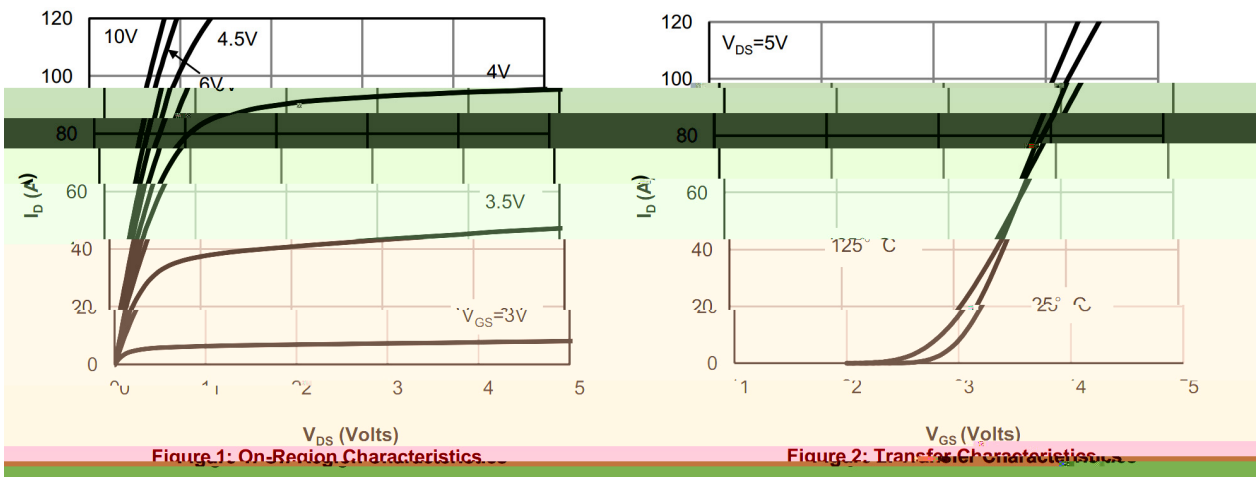
See Marking Instructions.

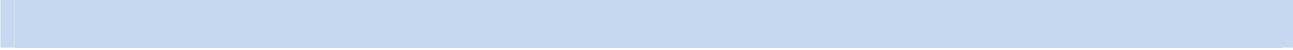
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	$V_{DSS}$	100	V
Drain Current	$I_D(T_C=25^\circ\text{C})$	73	A
Pulsed Drain Current	$I_{DM}$	190	A
Gate-Source Voltage	$V_{GS}$	$\pm 20$	V
Single Pulsed Avalanche Energy L=0.5mH	$E_{AS}$	78.8	mJ
Avalanche Current	$I_{AS}$	15	A
Total Power Dissipation	$P_D(T_C=25^\circ\text{C})$	90	W
Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to 150	
Thermal Resistance-Junction to Ambient	t 10s	$R_{JA}$	15
	Steady-State		60
Thermal Resistance-Junction to Case	Steady-State	$R_{JC}$	1.4

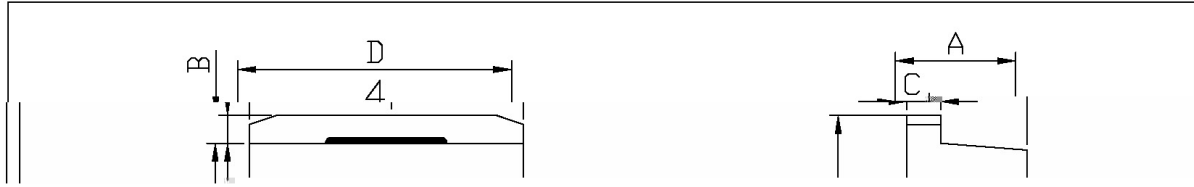
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	$BV_{DSS}$	$V_{GS}=0V$ $I_D=250\mu A$	100	109		V
Zero Gate Voltage Drain Current	$I_{DSS}$	$V_{DS}=100V$ $V_{GS}=0V$			1.0	$\mu A$
Gate-Body Leakage Current Forward	$I_{GSS}$	$V_{GS}=\pm 20V$ $V_{DS}=0V$			$\pm 100$	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=250\mu A$	1	1.8	2.5	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10V$ $I_D=20A$		6.2	8	m
	$R_{DS(on)}$	$V_{GS}=4.5V$ $I_D=10A$		8.2	12	m
Drain-Source Diode Forward Voltage	$V_{SD}$	$V_{GS}=0V$ $I_S=1A$			1.2	V
Gate resistance	$R_g$	$V_{GS}=0V$ $f=1MHz$ $V_{DS}=0V,$		1.3		
Input Capacitance	$C_{iss}$					



Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=50V$ $R_L=2.5$ $R_{GEN}=3$		11		ns
Turn-On Rise Time	$t_r$			4		
Turn-Off Delay Time	$t_{d(off)}$			32		
Turn-Off Fall Time	$t_f$			6.3		



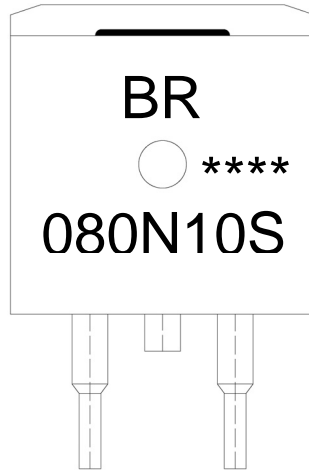




单位: mm

Symbol	Dimensions in Millimeters		Symbol	Dimensions in Millimeter	
	Min	Max		Min	Max
A	4.30	4.70	F <sub>L</sub>	0.00	0.10
B	1.00	1.40	e1	2.24	2.74
b	0.70	0.90	e2	4.88	5.28
b1	1.15	1.35	L1	15.00	16.00
b2	0.40	0.60	L2	2.24	2.84
C	1.20	1.40	L3	1.20	1.60
D	9.80	10.20			

TP-263



BR

080N10S

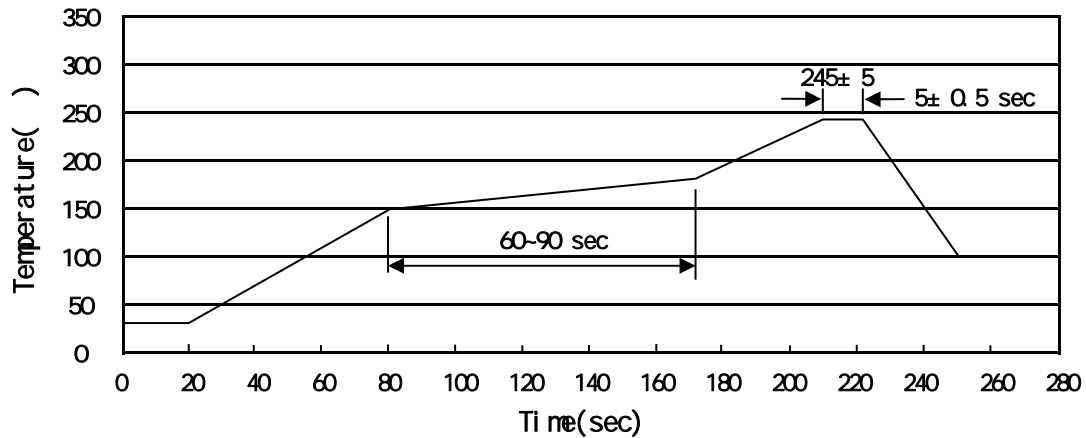
\*\*\*\*

Note:

BR: Company Code

080N10S: Product Type Code

\*\*\*\*: Lot No. Code, code change with Lot No

**Temperature Profile for IR Reflow Soldering(Pb-Free)**


Note:

- |   |       |     |       |          |   |
|---|-------|-----|-------|----------|---|
| 1 | 150   | 180 | 60    | 90sec;   | 1.Preheating:150~180 , Time:60~90sec.   |
| 2 | 245±5 |     | 5±0.5 | sec;     | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 |       |     | 2     | 10 /sec. | 3. Cooling Speed: 2~10 /sec.            |

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	只卷盘	卷盘盒	只盒	盒箱	只箱	盒		箱
TO-263	800	1	800	6	4,800	13	x24	360x360x50 380x335x366

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	只套管	套管盒	只盒	盒箱	只箱	套管	盒	箱
TO-263	50	20	1,000	5	5,000	532x33x7.0	555x164x50	575x290x180