

5 é / Descriptions

TOLL-8L / x N ?ú 3 « | • ' ož

N-Channel MOSFET in a TOLL-8L Plastic Package .

□ a / Features

$V_{DS}(V)=100V$ $I_D=330A$

$R_{DS(ON)}@10V$ "1.5m Ÿ(Typ.1.2m Ÿ)

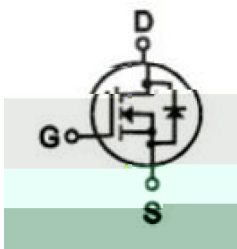
... ` AEC-Q101 ö Ö ä U ´ Å } L k —)í D }ož Qualified to AEC-Q101 Standards for High Reliability, HF Product.

Đ ÷ / Applications

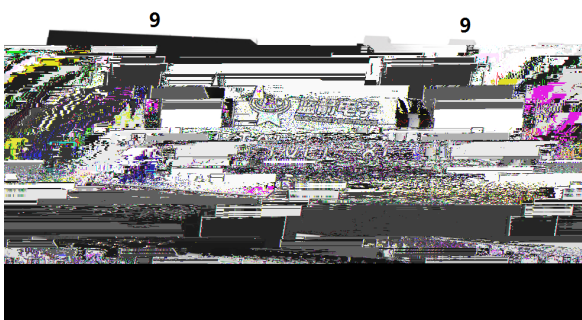
DC/DC ô E ~o• > • ¼o• Ñ Ü k á V ñ • } Lož

DC/DC converter, Power switch, Motor drives, Meet the stringent requirements of automotive applications.

Ã w] Ô • / Equivalent Circuit



• Ů - æ / Pinning



PIN1 ÖG

PIN2 Ã3 Ã4 Ã5 Ã6 Ã7 Ã8 ÖS

PIN9 ÖD

, M V / Marking

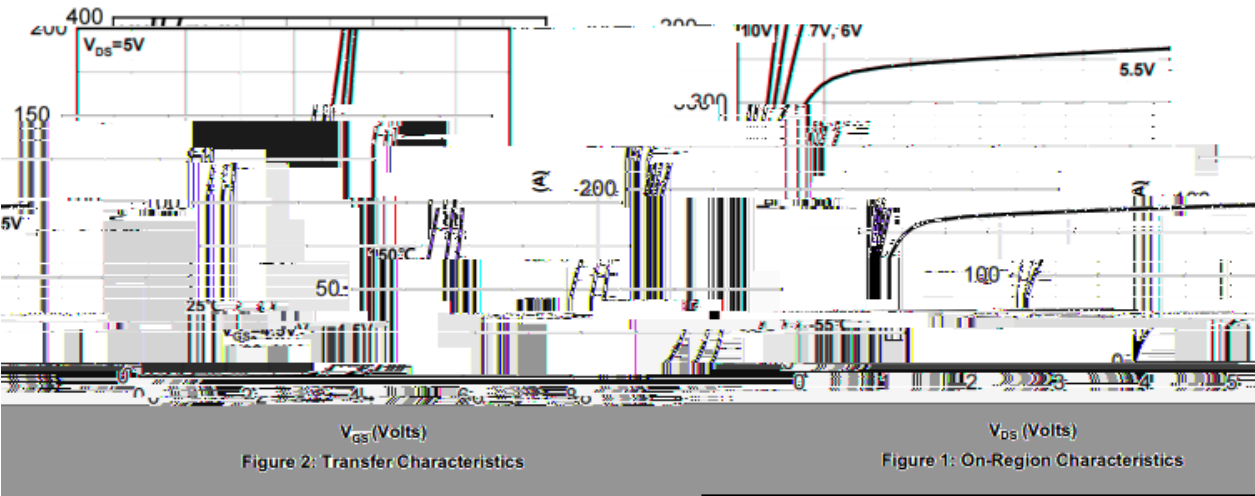
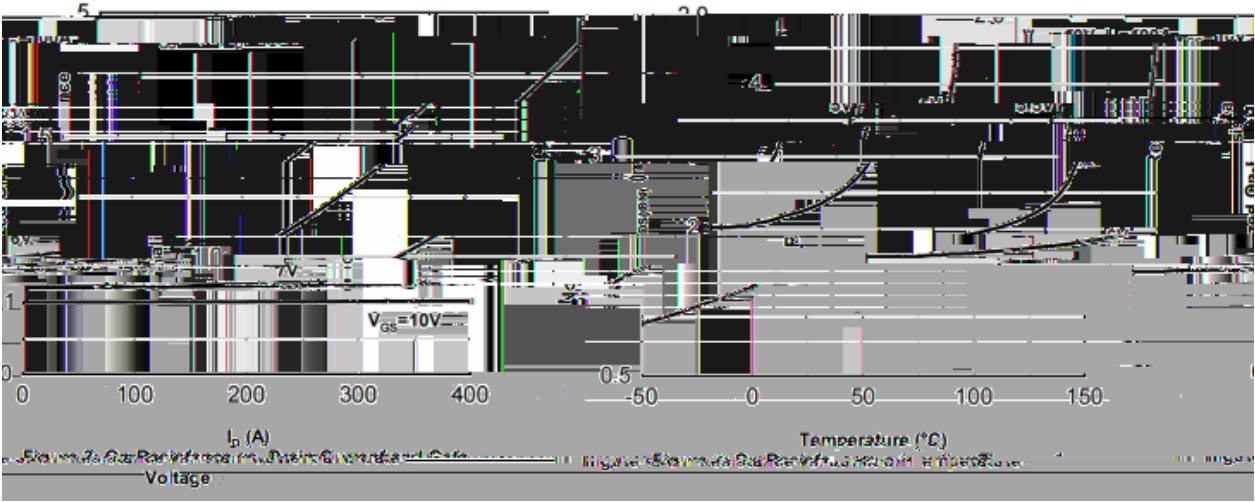
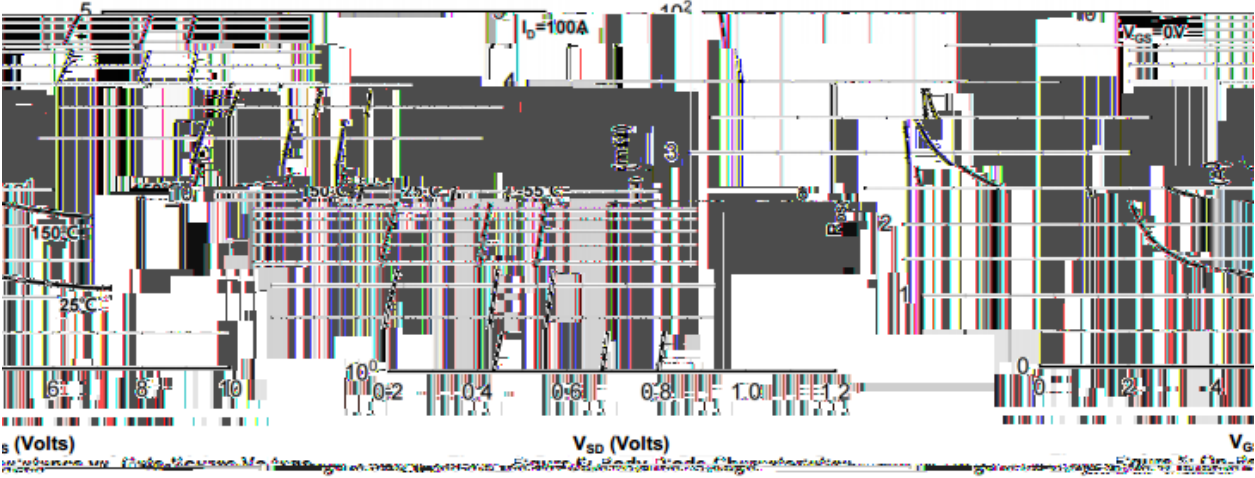
• - ~ a ¢ož

See Marking Instructions.

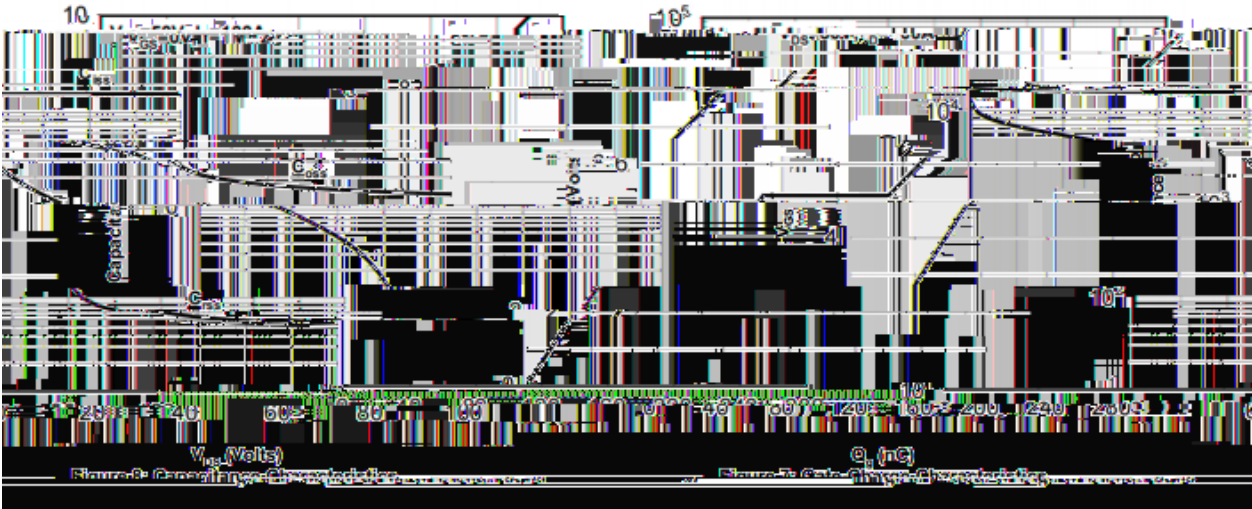
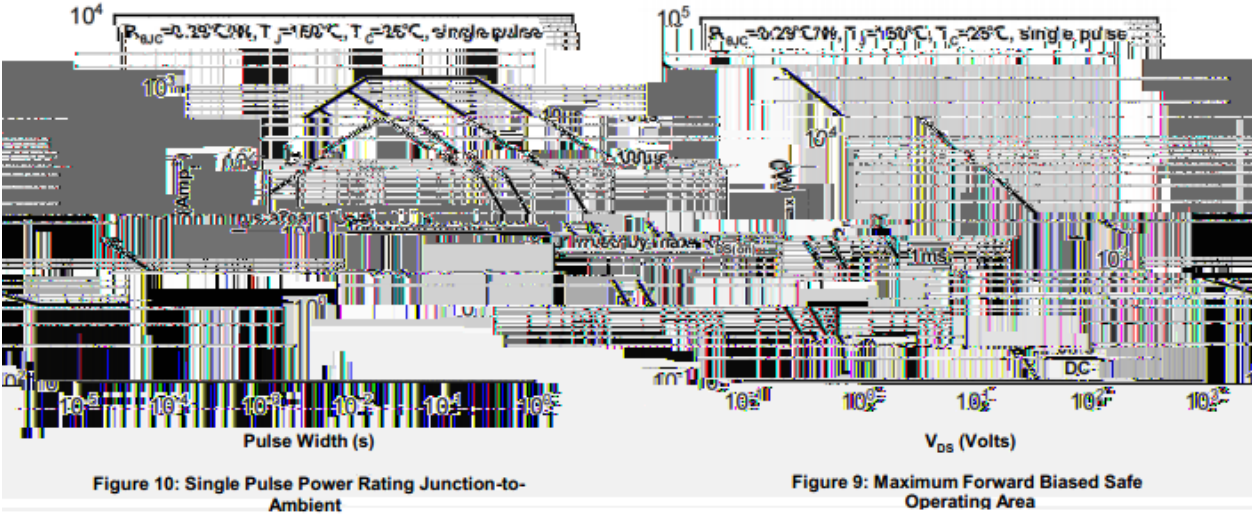
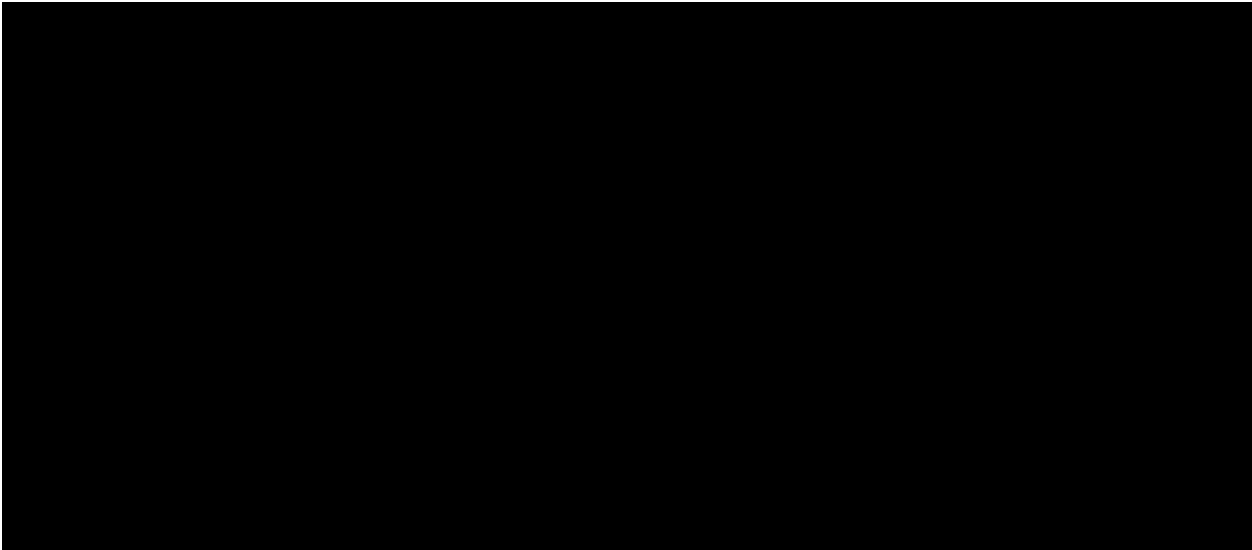
Electrical Characteristics(Ta=25 ;)

@ f Parameter	... Z Symbol	y i Ú ^ Test Conditions	Â 4 > Min	Á ° > Typ	Â Ý > Max	% y Unit
Turn-On Delay Time	t _{d(on)}	V _{GS} =10V V _{DS} =50V R _G =6 i I _D =100A		81		ns
Turn-On Rise Time	t _r			178		
Turn-Off Delay Time	t _{d(off)}			167		
Turn-Off Fall Time	t _f			68		
Reverse Recovery Time	t _{rr}	I _{DS} =50A, V _{DS} =50V di/dt=100 A/ - s		92		ns
Reverse Recovery Charge	Q _{rr}			200		nC

Electrical Characteristic Curve



Electrical Characteristic Curve



Electrical Characteristic Curve

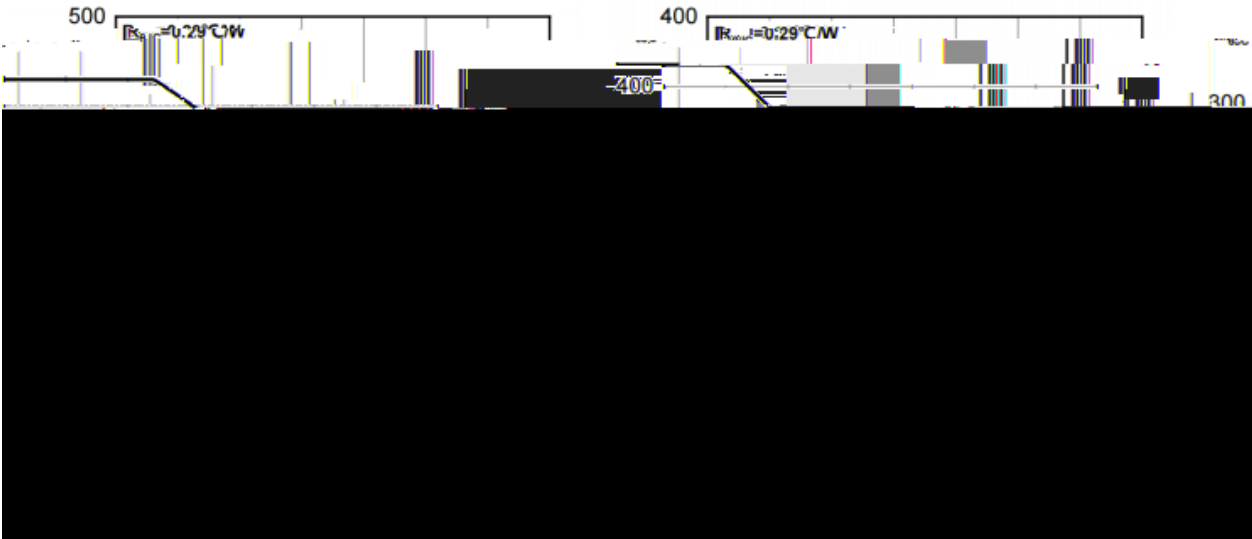
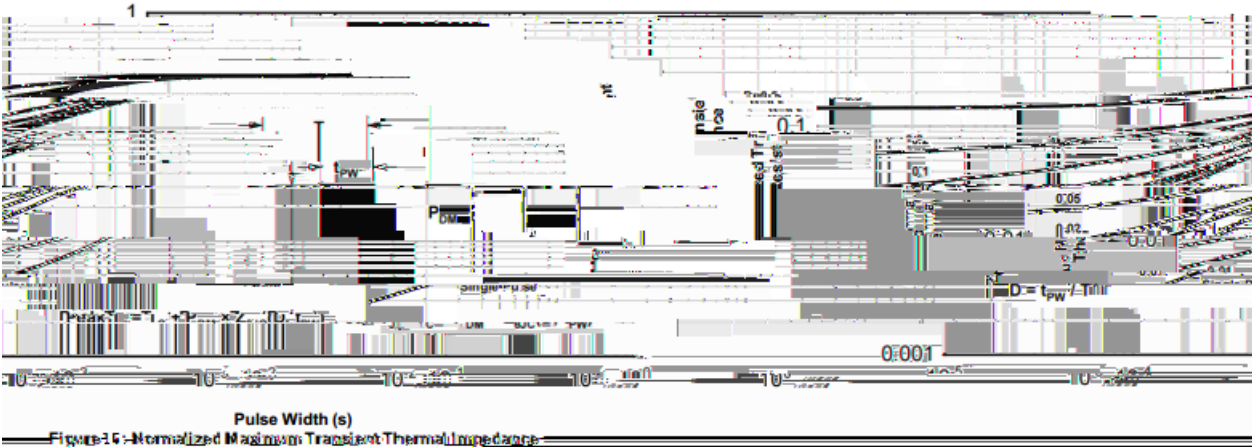
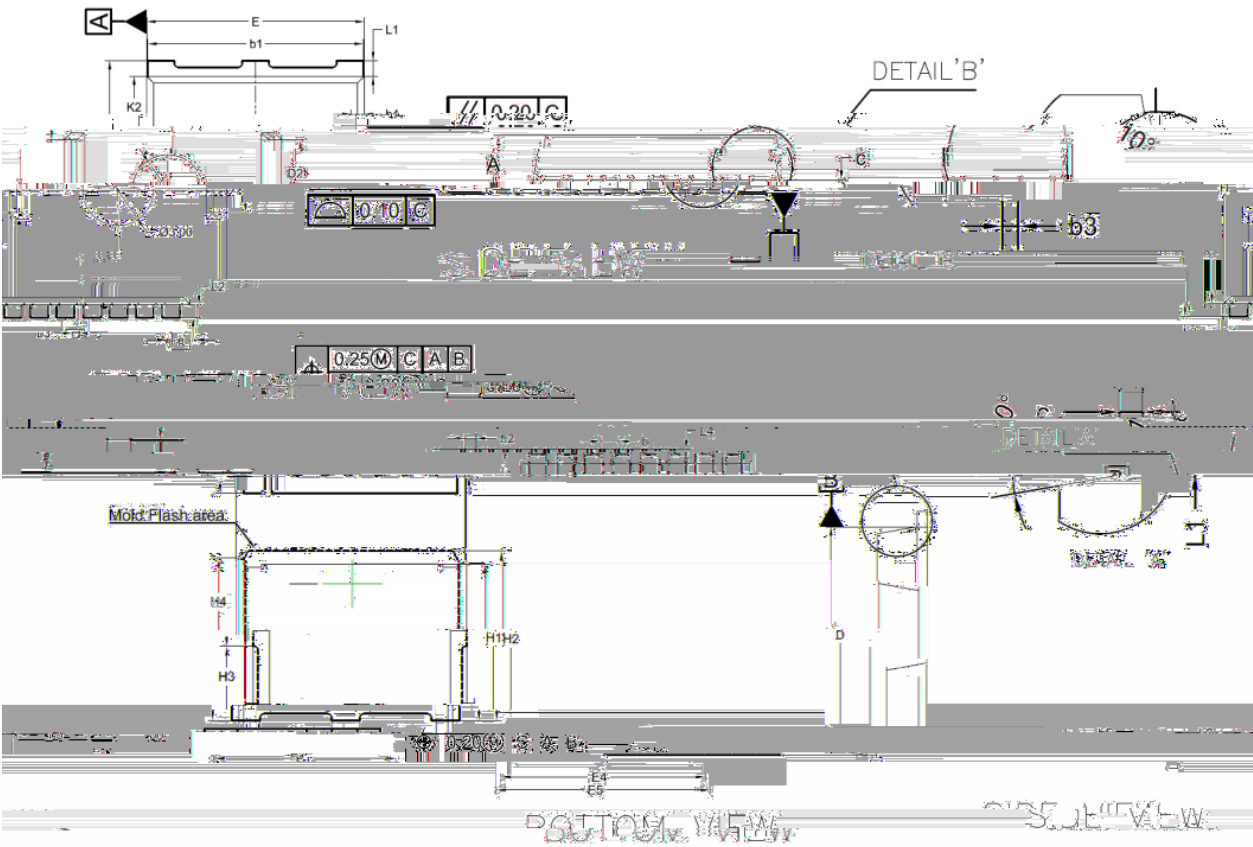


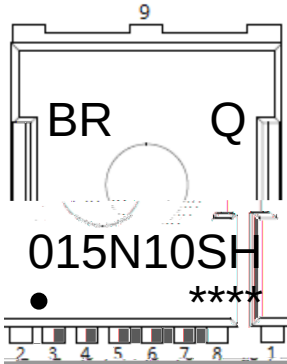
Figure 15: Normalized Maximum Transient Thermal Impedance

Ø □ =) ☼ / Package Dimensions



9_SHU	*OSKTYOUTY /T 3OR			9_SHU	*OSKTYOUTY /T 3OR		
	3 / 4	4 5 3	3' >		3 / 4	4 5 3	3' >
'				H			
l				H			
*				H			
+				H			
K		(9)		H			
.				H			
.				2			
.				2			
.				2			
.				2			
1				2			
1				+			
*				+			
H				+			

, M y f / Marking Instructions



Marking Instructions

(8 y) [W A

7 y V ñ —) í D } ö æ

015N10SH y ° Z W A

y ÿ D Z W A k š ÿ D Z J

Note y

BR y Company Code

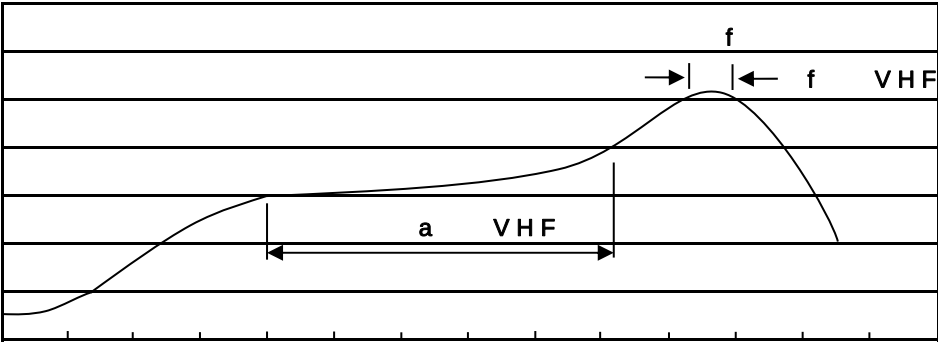
Q: Automobile halogen-free product Code

015N10SH y Product Type Code

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

šWD t...•Žč (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KL RU] 9URJKXOTM 6

7HPSHUDWUXUH



7LPH VHF

ačy

Note:

- 10• Ä ½ “† 150 ½200 - k ž • 60 ½120sec; 1.Preheating:150~200 - , Time:60~120sec.
20• Q > “† 255 r5 - k ž • 4 Ò 5 r0.5sec; 2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.
30•D N ò i Ò 0 ,† 2 ½10 - /sec. 3. Cooling Speed: 2~10 - /sec.

ÂD /Că p ¯ »] / Resistance to Soldering Heat Test Conditions

“†y 260 r5 - ž •y 10 r1 sec. Temp.:260±5 Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type / x ¥ "	Units ;>û H					Dimension ;>û p . (unit /mm³)		
	Units/Reel Q 2 &	Reels/Inner Box 2 & "	Units/Inner Box Q "	Inner Boxes/Outer Box " "	Units/Outer Box Q "	Reel	Inner Box	Outer Box
TOLL-8L	2,000	1	2,000	6	12,000	13"×24	360×360×50	380×335×366

„Đ y f / Notices