

5 é / Descriptions

TOLL-8L / x N ?ú 3 « | •'ož

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

α a / Features

V_{DS}(V)=100V I_D=280A

R_{DS(ON)}@10V "2.3m Ÿ(Typ.2.1mR)

—)í D } ÄHF Product.

W Ä ~ k Ý ä " J ~ © ĩ k BMS ~ k ù ° V ñ ož

Power Tool appliances,High power inverter system,BMS appliances,Light electric vehicles.

PIN1 Ö G PIN2 Ä3 Ä4 Ä5 Ä6 Ä7 Ä8 ÖS PIN9 ÖD

, M V / Marking

• - ~ a øž

See Marking Instructions.

@ f Parameter	... Z Symbol	f › Rating	% y Unit
Drain-Source Voltage	V_{DS}	100	V
Drain Current - Continuous	I_D	280	A
Drain Current - Continuous	$I_D(T_c=100^\circ\text{C})$	190	A
Drain Current – Pulsed	I_{DM}		

Electrical Characteristics(Ta=25 ;)

@ f Parameter	... Z Symbol	y j 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 _L =2.5 j R _G =4.5 j I _{DS} =20A		32		ns
Turn-On Rise Time	t _r			40		
Turn-Off Delay Time	t _{d(off)}			80		
Turn-Off Fall Time	t _f			35		
Reverse Recovery Time	t _{rr}	I _{DS} = 20 A, V _{GS} = 0 V		80		nS
Reverse Recovery Charge	Q _{rr}	dI _{SD} /dt = 100 A/ - s		195		nC

Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ø □ =) ∅ / Package Dimensions

9_SHU	*OSKTYOUTY /T 3OR			9_SHU	*OSKTYOUTY /T 3OR			ROSKZKXY
	3/4	453	3'>		3/4	453	3'>	
'				H				
l				H				
*				H				
+				H				
K	(9)			H				
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, M y f / Marking Instructions

BR

023N10SH
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023N10SH y ° Z W A

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Note y

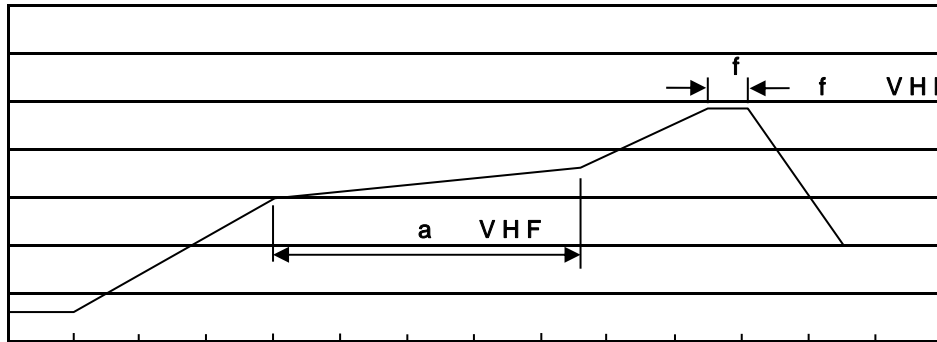
BR y Company Code

023N10SH y Product Type Code

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

šWD t... •Žç (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HPSHUDWXUH



7LPH VHF

a ç y

- 1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;
- 2o• Q › “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;
- 3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

- 1.Preheating:150~180 - , Time:60~90sec.
- 2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.
- 3. Cooling Speed: 2~10 - /sec.

ÂD /Cã 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 iH					Dimension ;>û p . (unit /Ænm ³)		
	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”x24	360x360x50	380x335x366

„ Ò y f / Notices