

5 é / Descriptions

TOLL-8L / x N ?ú 3 « | • 'ož

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

□ ª / Features

 $V_{DS}(V)=100V$ $I_D=280A$ $R_{DS(ON)}@10V$ "2.3m Ÿ(Typ.2.1mR)

—)í D } ÄHF Product.

W À ~k Ý ä " J ~ © Ĩ k

BMS ~k ù ° V ñož

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 ¢ož

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 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 _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 dI _{SD} /dt = 100 A/ - s		80		nS
Reverse Recovery Charge	Q _{rr}			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			R OSKZKXY
	3/4	453	3'>		3/4	453	3'>	
'				H				
l				H				
*				H				
+				H				
K		(9)		H				
.				H				
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1				2				
1				+				
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, M y f / Marking Instructions

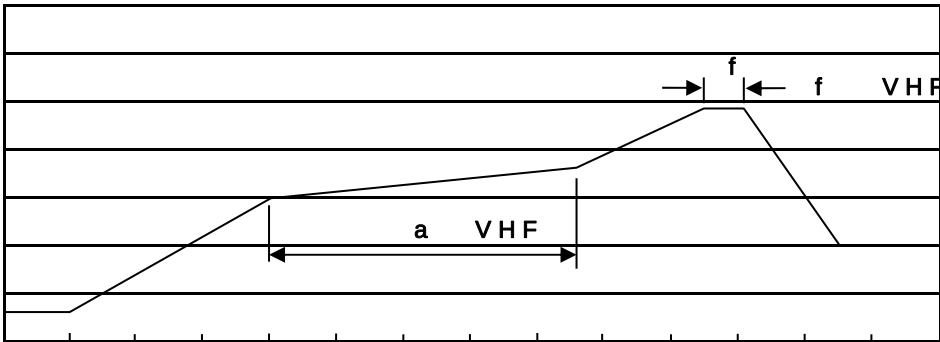
BR

023N10SH
● ****

^a ¢ y
(8 y , [W A
023N10SH y ° Z W A
y ħ D Z W A k š ħ D Z J
Note y
BR y Company Code
023N10SH y Product Type Code
****: Lot No. Code, code change with Lot No

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

7HPSHUDWXUH



7LPH VHF

a ¢ y

- 10• Ä ½ ¢ † 150 ½180 - k Ž • 60 ½90sec;
- 20• Q > ¢ † 245 r5 - k Ž • 4 Ò 5 r0.5sec;
- 30•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 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

„ Ð y f / Notices