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4-CHANNEL MOSFET in a SOT-23 Plastic Package.

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High Power and Current Handing Capability, Integrated Gate-Source Resistance, ESD Rating HBM Ú 4KV,HF Product.

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6 = 3 • k ¿ ú • ¼ k › ’ òož

PWM application,Load switch, Power Management

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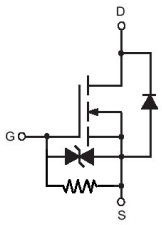

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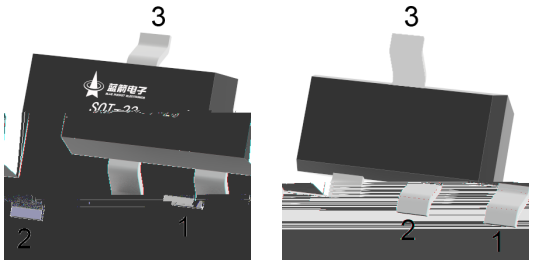

PIN1 y G PIN 2 y S PIN 3 y D

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See Marking Instructions.

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@ ƒ Parameter		… Z Symbol	ƒ › Rating	% y Unit
Drain–Source Voltage		V_{DS}	80	V
Drain Current		I_D	2.2	A
Drain Current - Pulsed		I_{DM}	9	A
Gate-Source Voltage		V_{GS}	±20	V
Power Dissipation		P_D	2	W
Operating and Storage Temperature Range		T_J,T_{STG}	-55 150	
Maximum Junction-to-Ambient	t 0 10s	$R_{©JA}$	62.5	/W
Maximum Junction-to-Ambient	Steady-State		102	/W
Maximum Junction-to-Lead	Steady-State	$R_{©JL}$	55	/W

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@ ƒ Parameter	… Z Symbol	y ¡ Ú ^ Test Conditions	Â 4 › Min	Á º › Typ	Â Ý › Max	% y Unit
Drain–Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V I_D=250 A	80	90		V
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=V_{GS} I_D=250 A	2	3	4	V
Static Drain–Source On–Resistance	$R_{DS(on)}$	V_{GS}=10V I_D=1A		188	250	m
		V_{GS}=6V I_D=1A		280	350	m
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=60V V_{GS}=0V			-1.0	A
Gate-Body leakage current	I_{GSS}	V_{GS}=±20V V_{DS}=0V			±500	A
Drain-Source Diode Forward Voltage	V_{SD}	V_{GS}=0V I_S=1A			1.2	V
Gate resistance	R_g	f=1MHz		3.7		
Gate- Source Resistance	R_{GS}			50		K
Input Capacitance	C_{iss}	V_{DS}=25V V_{GS}=0V f=1.0MHz		72		pF
Output Capacitance	C_{oss}			34		
Reverse Transfer Capacitance	C_{rss}			12		
Total Gate Charge	Q_g	V_{DS}=40V V_{GS}=10V I_D=1.5A		2.2		nC
Gate-to-Source Charge	Q_{gs}			0.56		
Gate-to-Drain Charge	Q_{gd}			0.42		
Turn–On Delay Time	$t_{d(on)}$	V_{DS}=40V V_{GS}=10V I_D=1.5A R_{GEN}=2		7.8		ns
Turn–On Rise Time	t_r			1.5		
Turn–Off Delay Time	$t_{d(off)}$			11		
Turn–Off Fall Time	t_f			6.7		

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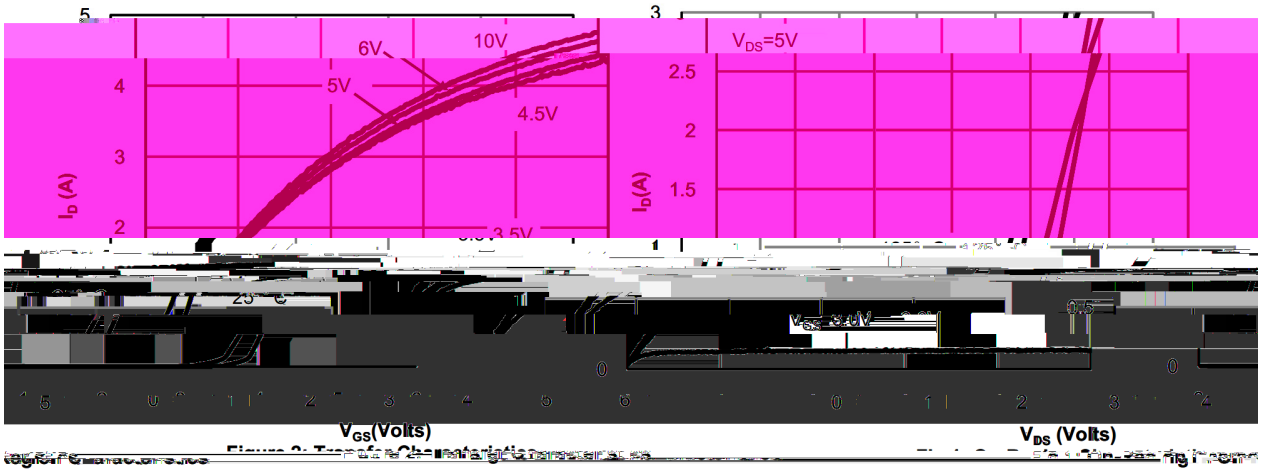


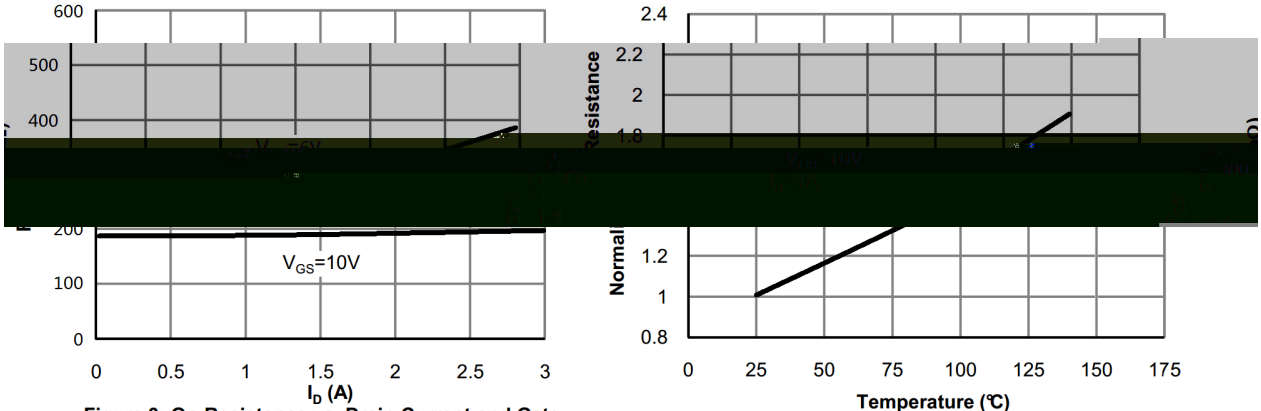
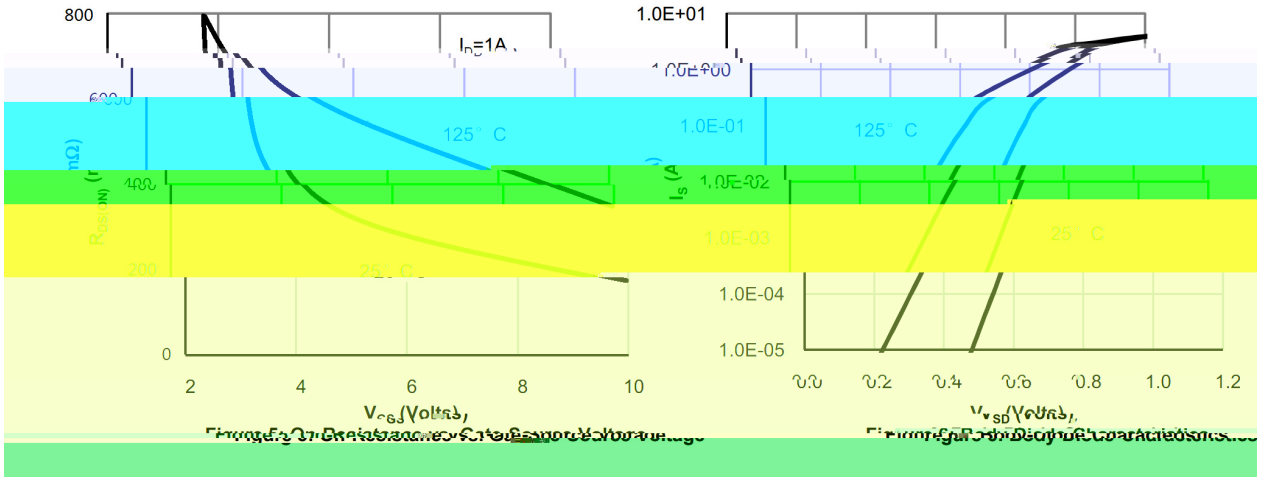


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

Figure 4: On-Resistance vs. Junction Temperature



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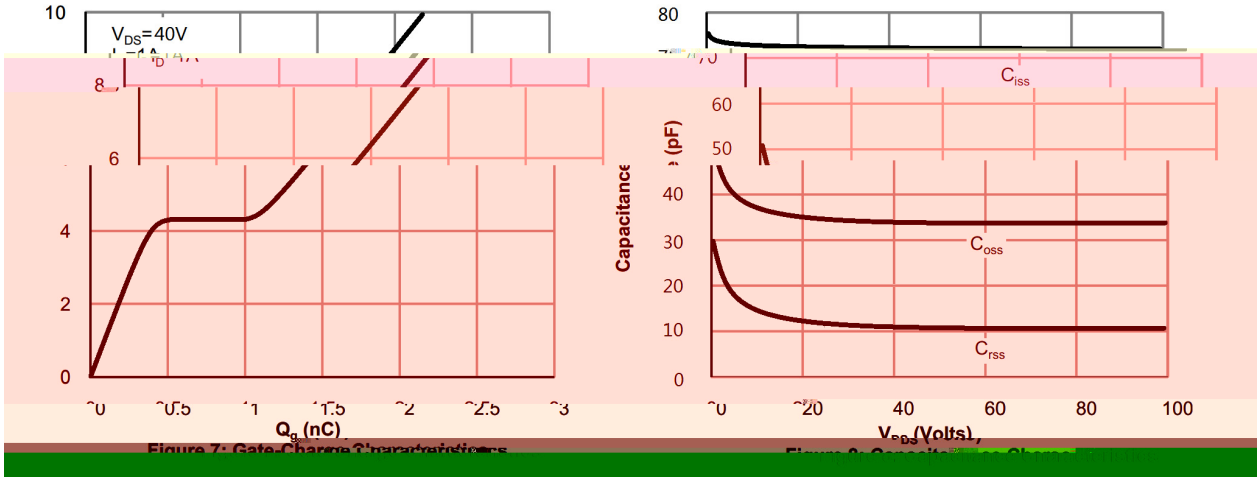


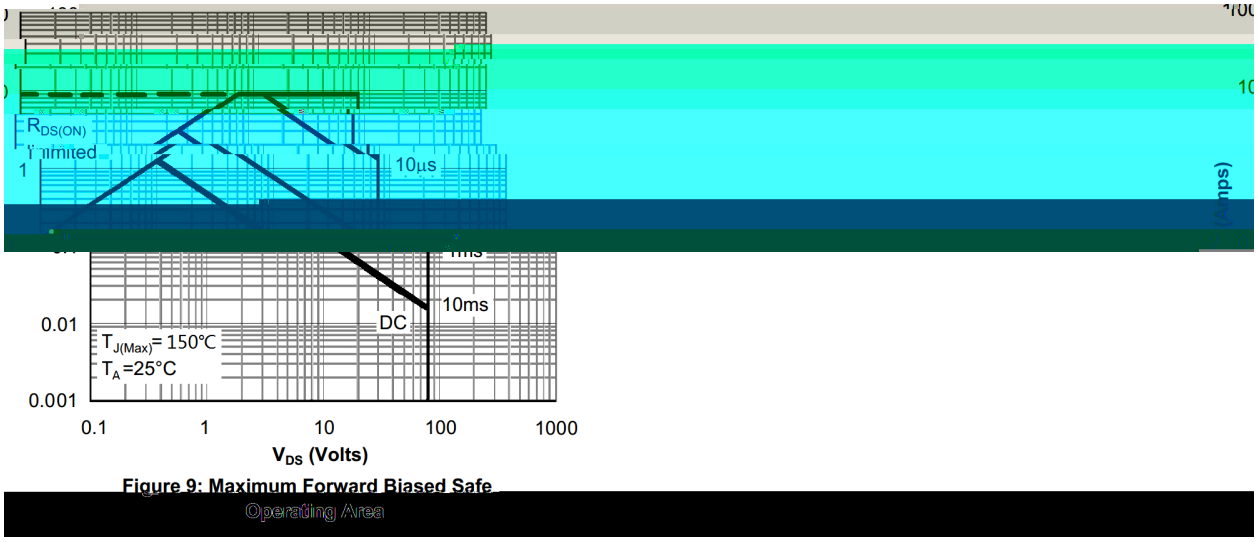
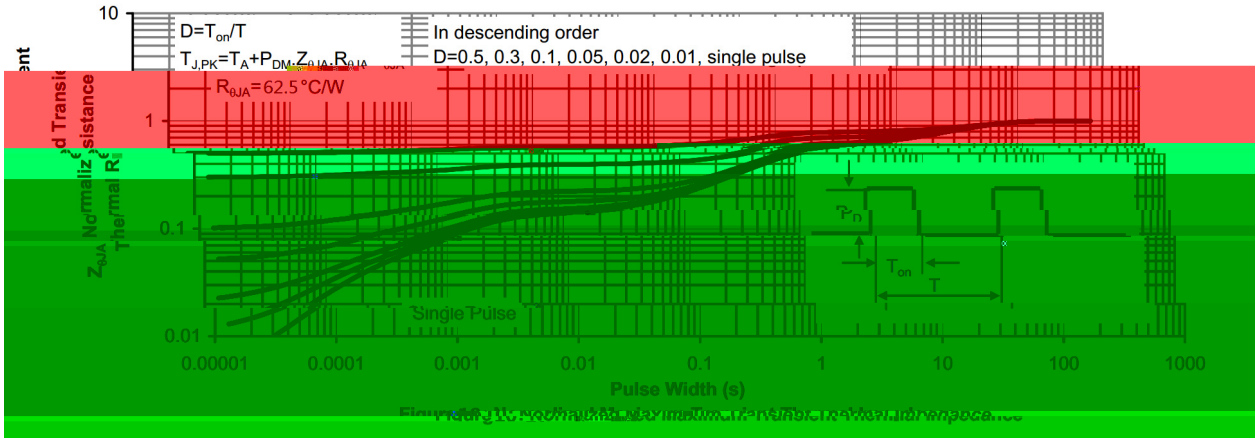


Figure 9: Maximum Forward Biased Safe Operating Area



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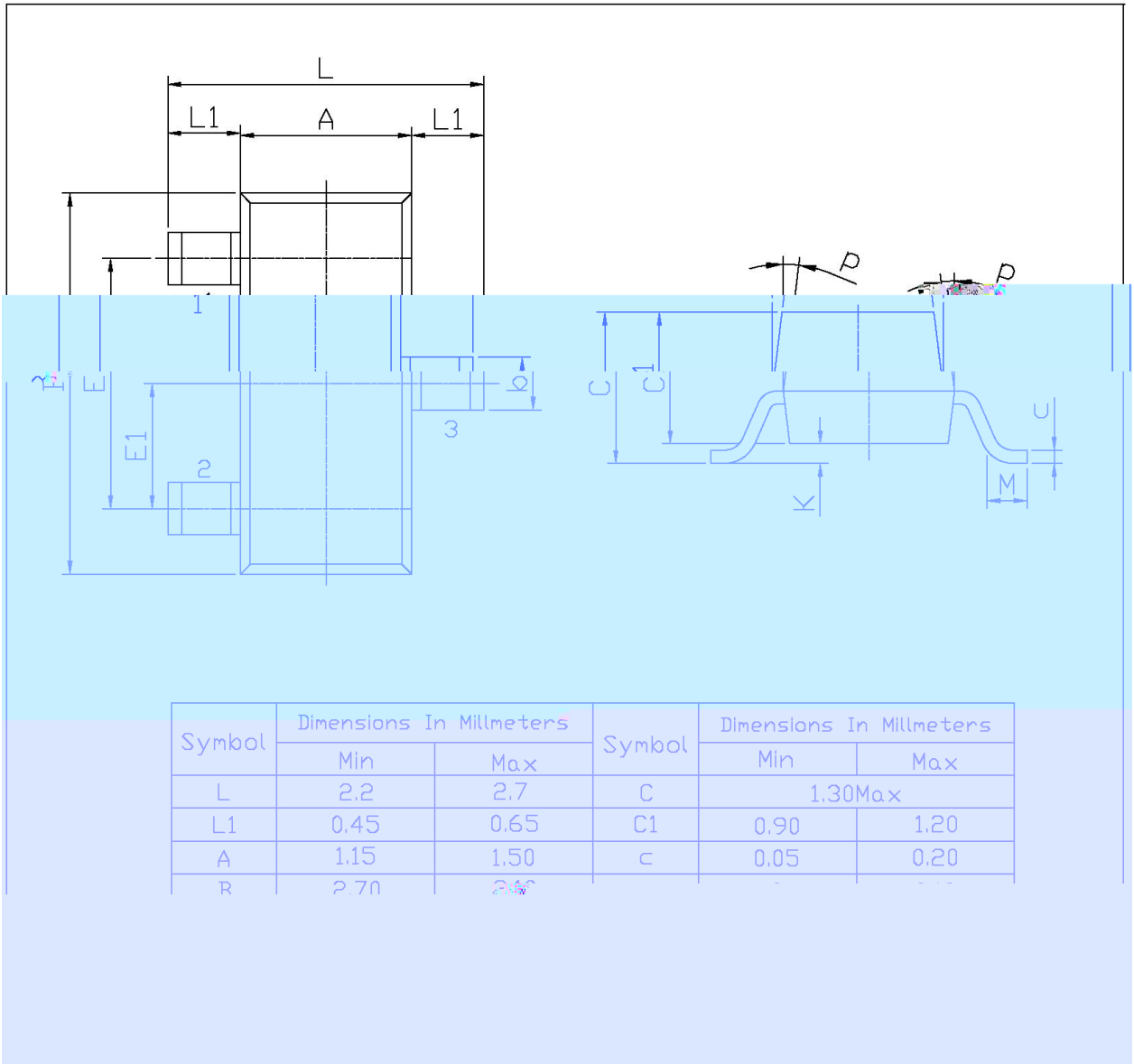
单位：mm



Symbol	Dimensions In Millmeters		Symbol	Dimensions In Millmeters	
	Min	Max		Min	Max
L	2.2	2.7	C	1.30Max	
L1	0.45	0.65	C1	0.90	1.20
A	1.15	1.50	c	0.05	0.20
R	2.70				

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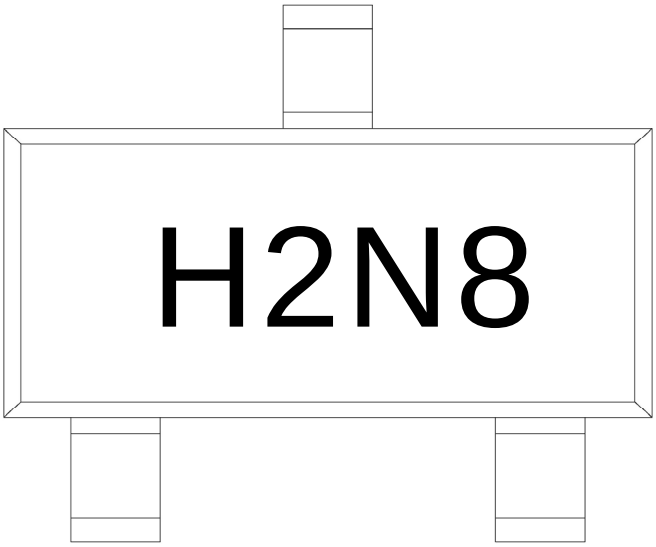

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2N8 y º Z W A

Note:

H y Company Code

2N8: Product Type

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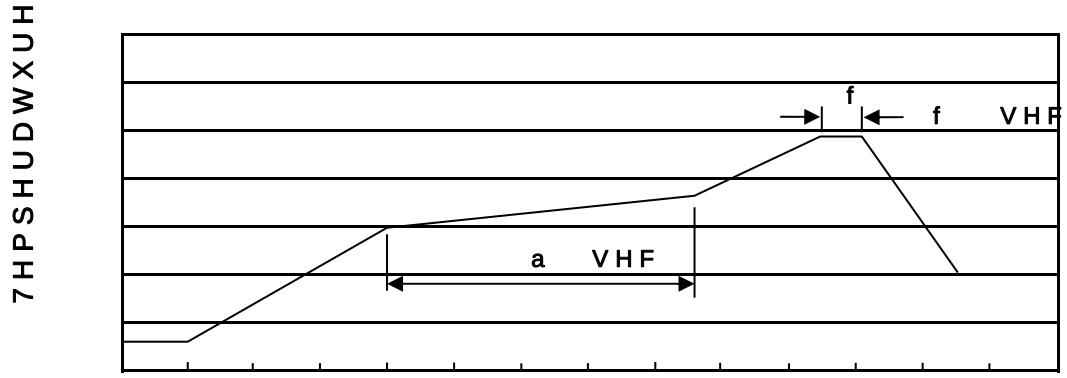

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1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;

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 ¯ »]

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

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2 & x / REEL

Package Type 7>û ˜ E	Units ;>û ¦H					Dimension ;>û p . (unit Æmm³)		
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box×	Outer Box1ç
SOT-23	3,000	10	30,000	6	180,000	7 s ×8	180×120×180	390×385×205

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