



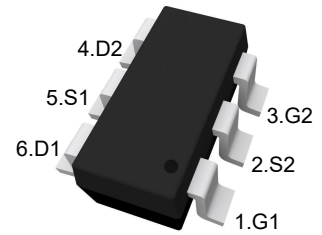
PJM6801DPSG

Dual P-Channel Enhancement Mode Power MOSFET

Features

- Excellent $R_{DS(on)}$ and low gate charge
- $V_{DS} = -30V, I_D = -4.1A$
 $R_{DS(on)} < 60m\Omega @ V_{GS} = -10V$

SOT-23-6

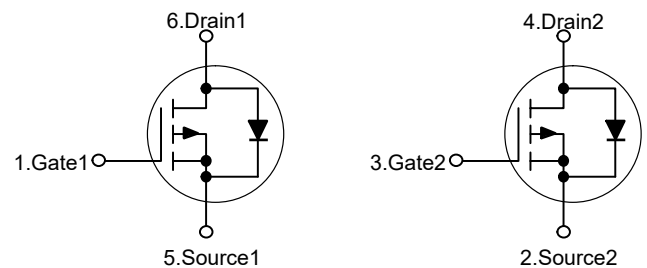


Marking Code: 6801

Applications

- Load switch
- PWM application

Schematic Diagram



Absolute Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Drain-Source Voltage	$-V_{DS}$	30	V
Gate-Source Voltage	V_{GS}	± 12	V
Drain Current-Continuous	$-I_D$	4.1	A
Drain Current-Pulsed ^{Note1}	$-I_{DM}$	30	A
Maximum Power Dissipation	P_D	1.4	W
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Thermal Characteristics

Thermal Resistance, Junction-to-Ambient ^{Note2}	$R_{\theta JA}$	89	°C/W
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Electrical Characteristics

(Ta=25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Static Characteristics						
Drain-Source Breakdown Voltage	$-V_{(BR)DSS}$	$V_{GS}=0V, I_D=-250\mu A$	30	--	--	V
Zero Gate Voltage Drain Current	$-I_{DSS}$	$V_{DS}=-30V, V_{GS}=0V$	--	--	1	μA
Gate-Body Leakage Current	I_{GSS}	$V_{GS}=\pm 12V, V_{DS}=0V$	--	--	± 100	nA
Gate Threshold Voltage ^{Note3}	$-V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=-250\mu A$	0.6	1	1.4	V
Drain-Source On-Resistance ^{Note3}	$R_{DS(on)}$	$V_{GS}=-10V, I_D=-3A$	--	45	60	m Ω
		$V_{GS}=-4.5V, I_D=-2A$	--	55	80	m Ω
Forward Transconductance ^{Note3}	g_{FS}	$V_{DS}=-5V, I_D=-4A$	--	10	--	S
Dynamic Characteristics						
Input Capacitance	C_{iss}	$V_{DS}=-15V, V_{GS}=0V, f=1MHz$	--	880	--	pF
Output Capacitance	C_{oss}		--	105	--	pF
Reverse Transfer Capacitance	C_{rss}		--	65	--	pF
Switching Characteristics						
Turn-on Delay Time	$t_{d(on)}$	$V_{DD}=-15V, I_D=-4.1A$ $V_{GS}=-10V, R_{GEN}=6\Omega$	--	7	--	nS
Turn-on Rise Time	t_r		--	3	--	nS
Turn-off Delay Time	$t_{d(off)}$		--	30	--	nS
Turn-off Fall Time	t_f		--	12	--	nS
Total Gate Charge	Q_g	$V_{DS}=-15V, I_D=-4.1A,$ $V_{GS}=-4.5V$	--	8.5	--	nC
Gate-Source Charge	Q_{gs}		--	1.8	--	nC
Gate-Drain Charge	Q_{gd}		--	2.7	--	nC
Source-Drain Diode Characteristics						
Diode Forward Voltage ^{Note3}	$-V_{SD}$	$V_{GS}=0V, I_S=-4.1A$	--	--	1.2	V
Diode Forward Current ^{Note2}	$-I_S$		--	--	4.1	A

Note: 1. Repetitive Rating: Pulse width limited by maximum junction temperature.

2. Surface Mounted on FR4 Board, $t \leq 10$ sec.

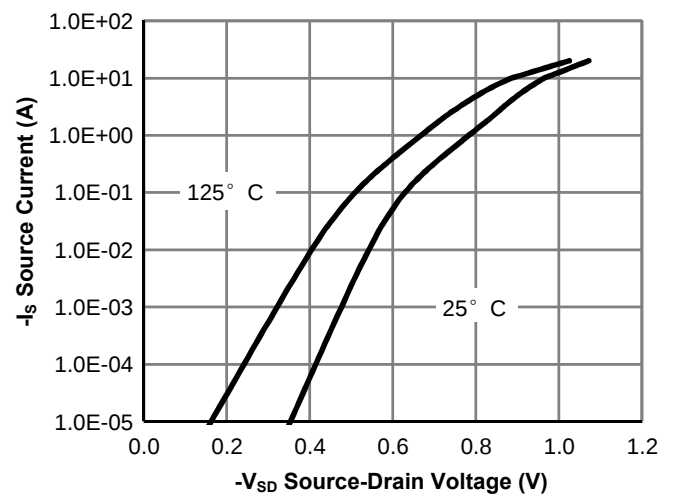
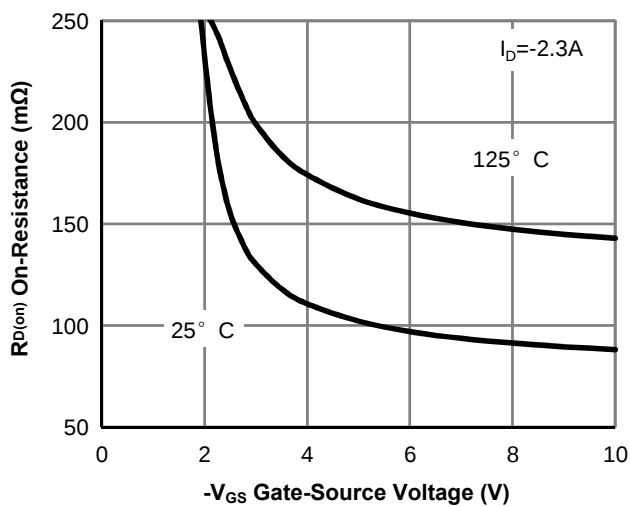
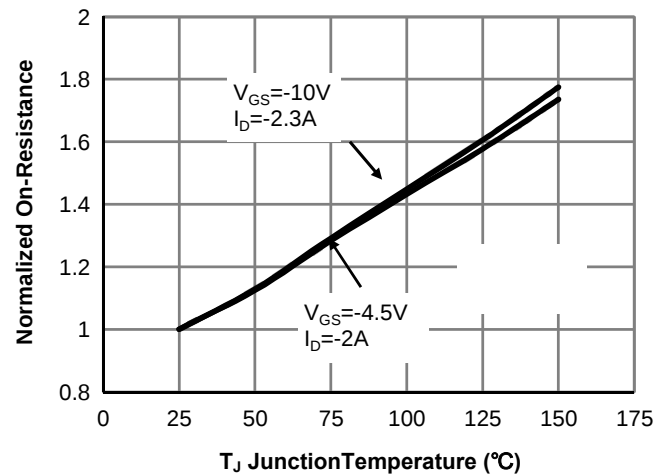
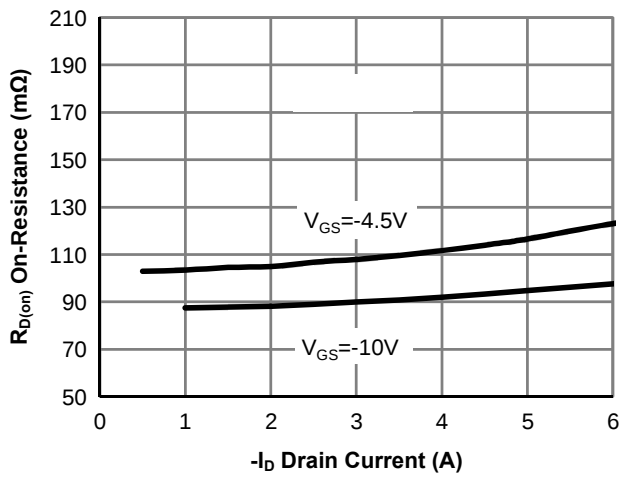
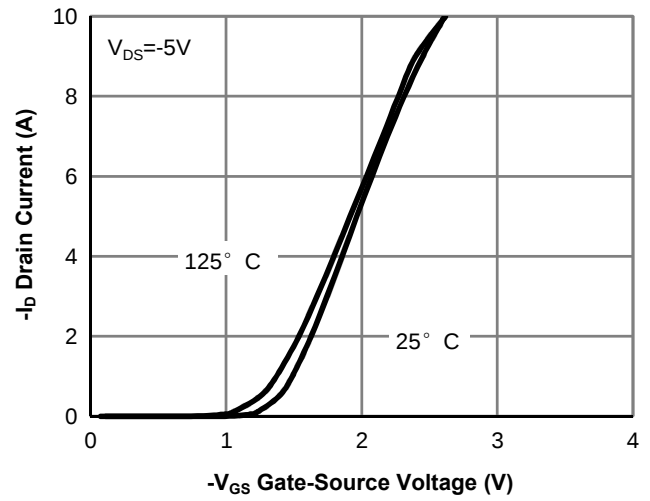
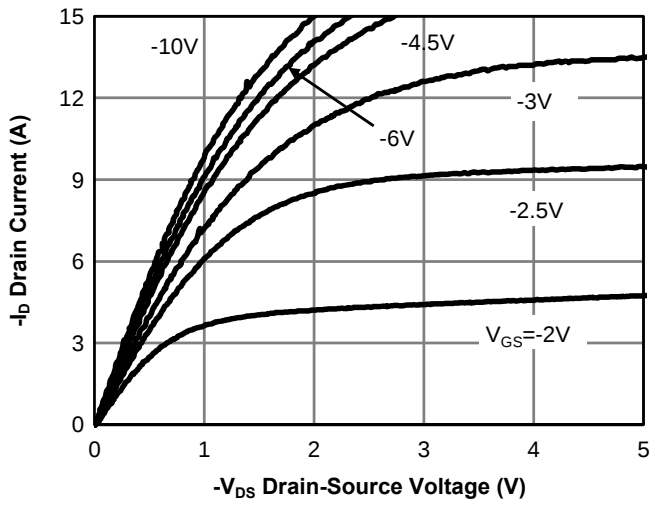
3. Pulse Test: Pulse width $\leq 300\mu s$, duty cycle $\leq 2\%$.



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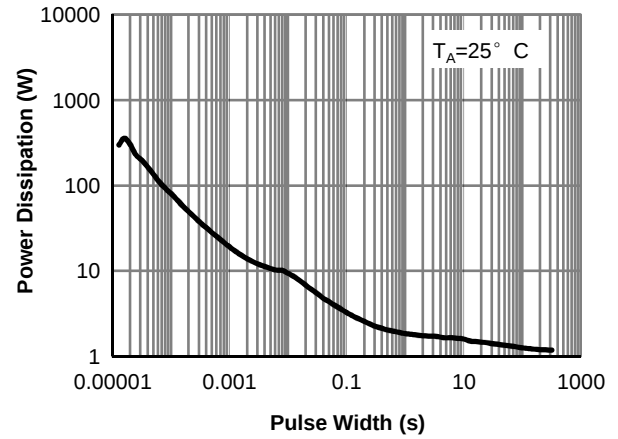
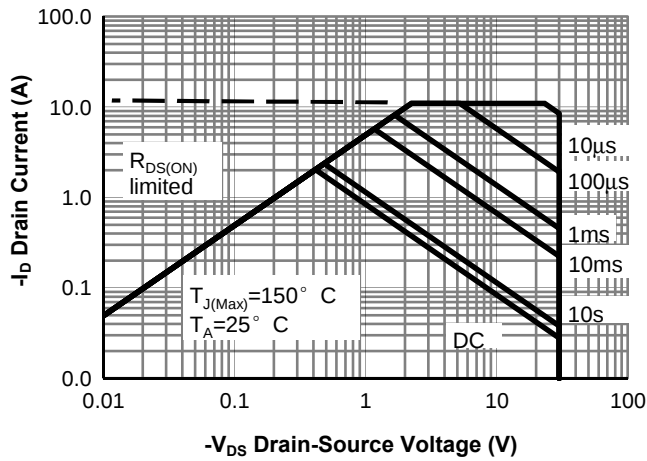
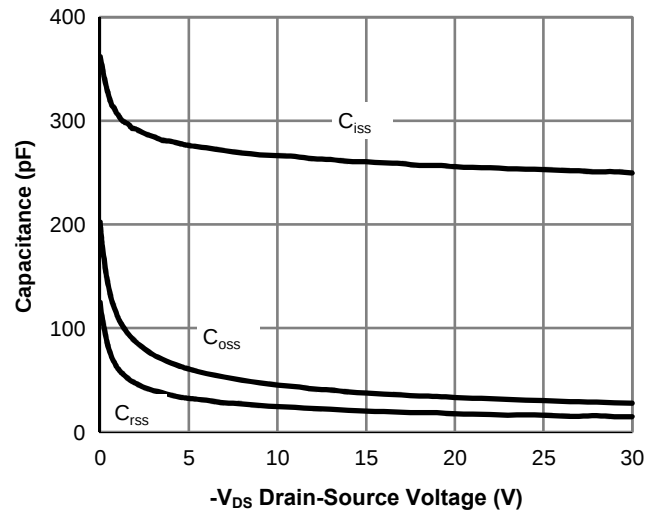
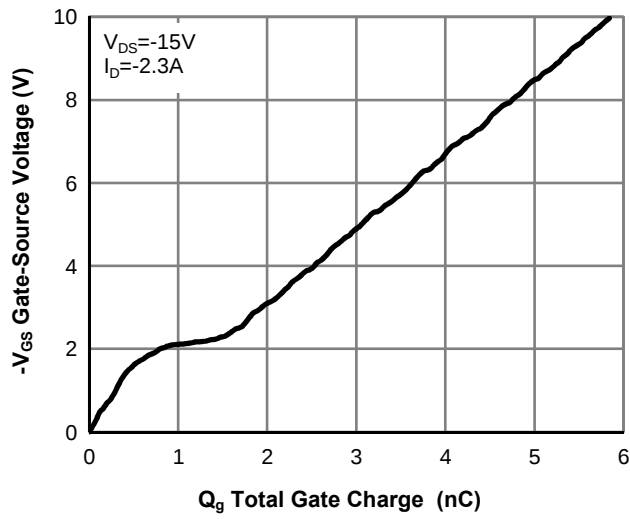
Typical Characteristic Curves





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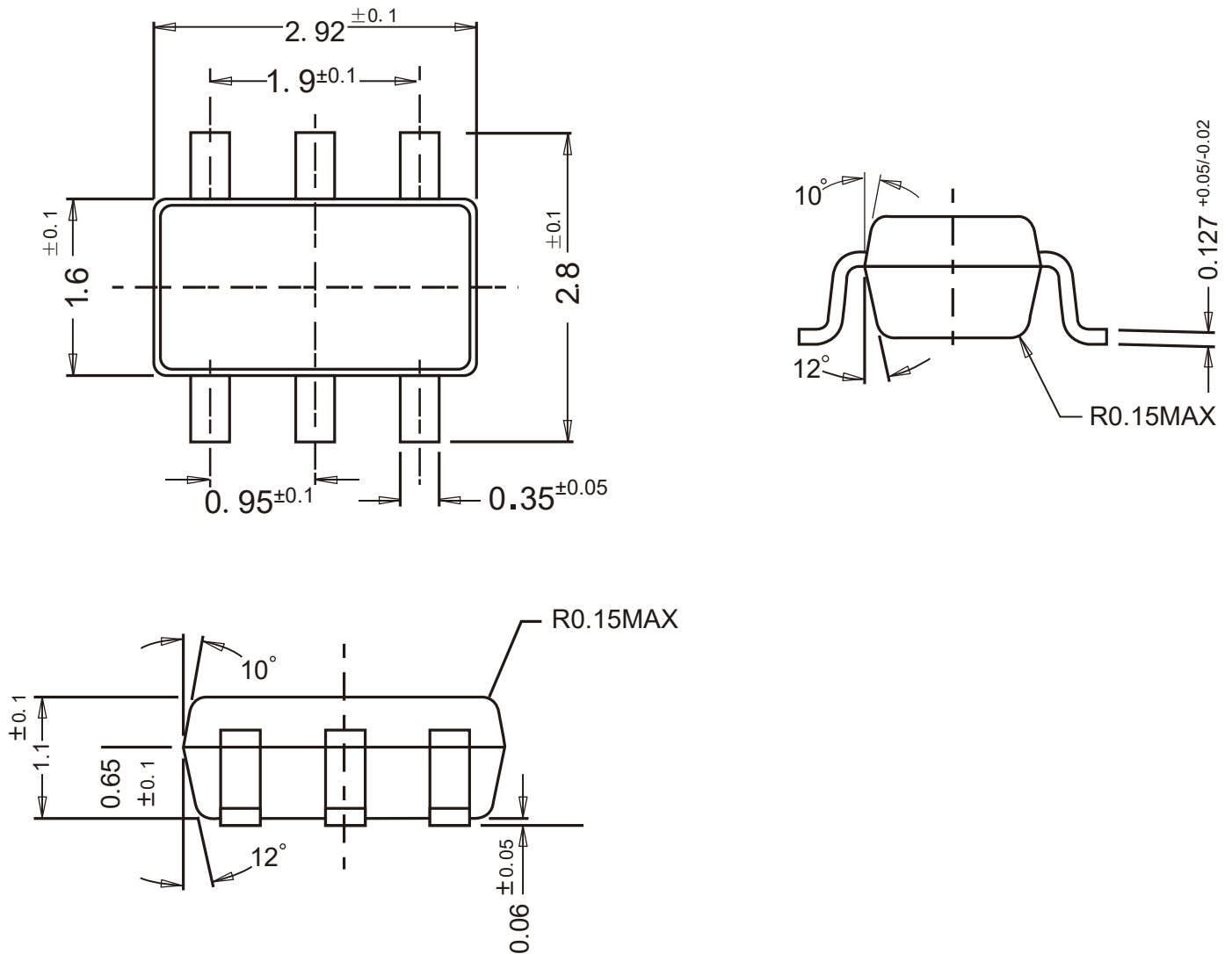
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Package Outline

SOT-23-6

Dimensions in mm



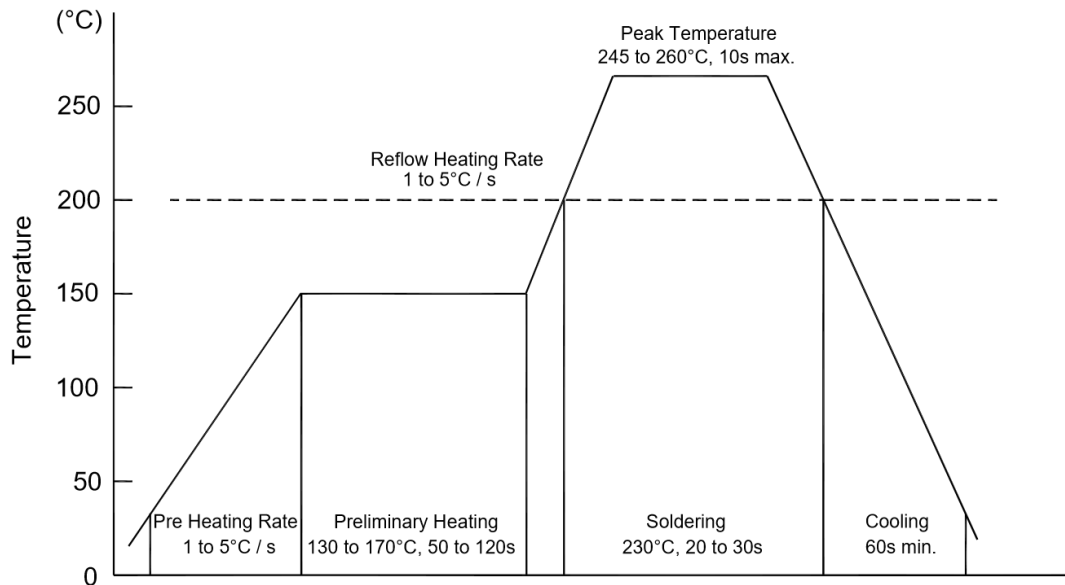
Ordering Information

Device	Package	Shipping
PJM6801DPSG	SOT-23-6	3,000PCS/Reel&7inches



Conditions of Soldering and Storage

◆ Recommended condition of reflow soldering



Recommended peak temperature is over 245 °C. If peak temperature is below 245 °C, you may adjust the following parameters:

- Time length of peak temperature (longer)
- Time length of soldering (longer)
- Thickness of solder paste (thicker)

◆ Conditions of hand soldering

- Temperature: 370 °C
- Time: 3s max.
- Times: one time

◆ Storage conditions

- **Temperature**
5 to 40 °C
- **Humidity**
30 to 80% RH
- **Recommended period**
One year after manufacturing

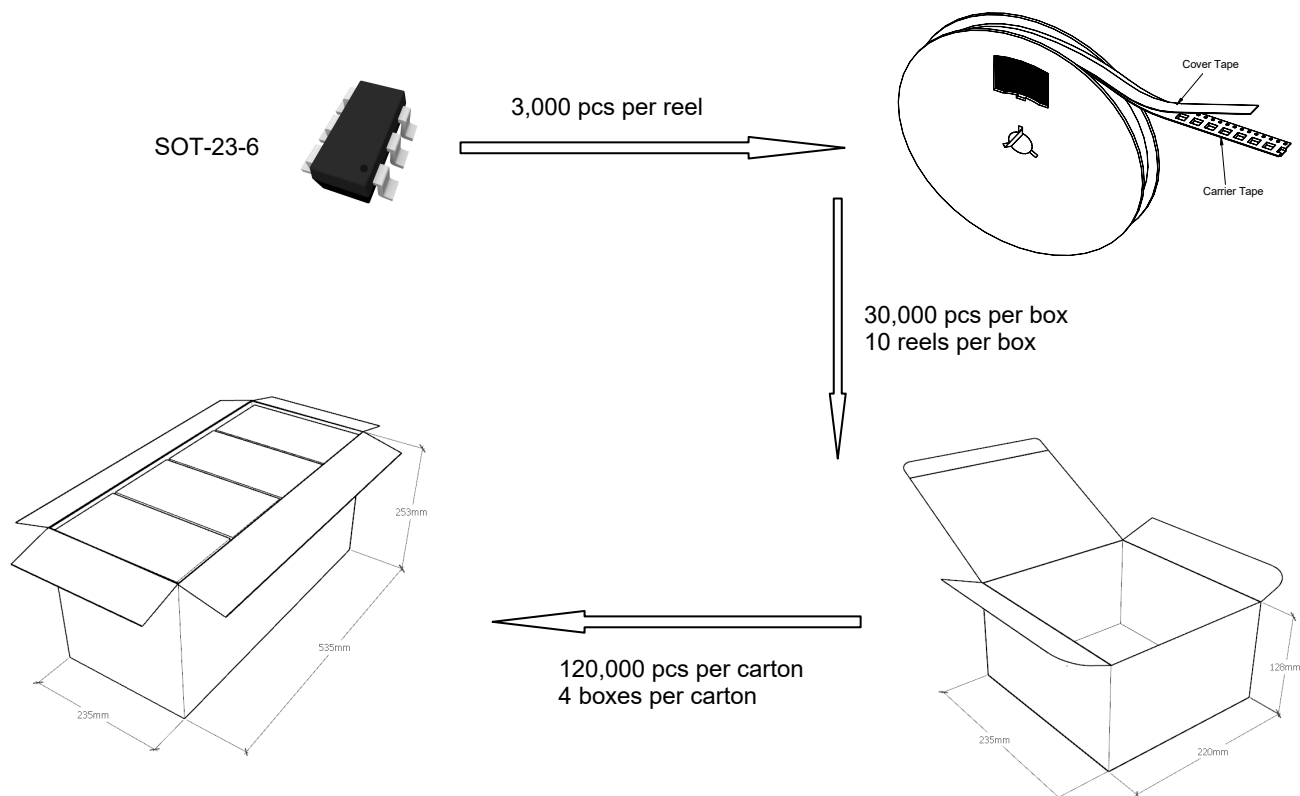


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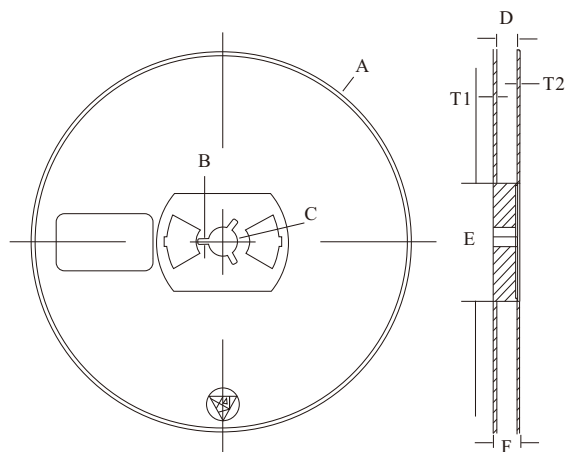
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Package Specifications

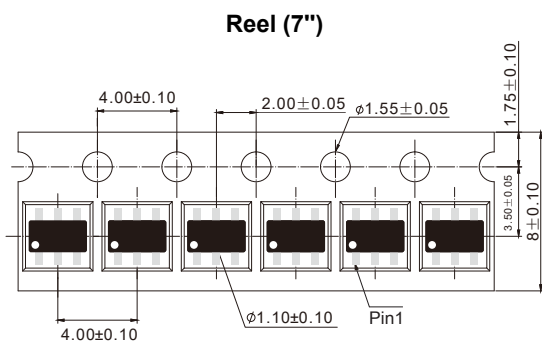
- The method of packaging



◆ Embossed tape and reel data



Symbol	Value (unit: mm)
A	$\varnothing 177.8 \pm 1$
B	2.7 ± 0.2
C	$\varnothing 13.5 \pm 0.2$
E	$\varnothing 54.5 \pm 0.2$
F	12.3 ± 0.3
D	$9.6 + 2/-0.3$
T1	1.0 ± 0.2
T2	1.2 ± 0.2



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