



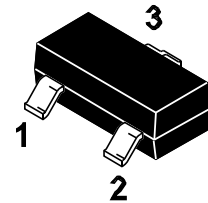
PJM10H01PSA

P-Channel Enhancement Mode Power MOSFET

Features

- Fast switching
- Low gate charge and $R_{DS(on)}$
- $V_{DS} = -100V, I_D = -1A$
 $R_{DS(on)} < 650m\Omega @ V_{GS} = -10V$

SOT-23



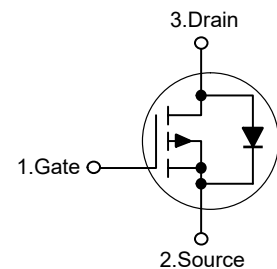
1. Gate 2. Source 3. Drain

Marking Code: 0101

Applications

- PWM applications
- Load switch
- Power management

Schematic Diagram



Absolute Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Drain-Source Voltage	$-V_{DS}$	100	V
Gate-Source Voltage	V_{GS}	± 20	V
Drain Current-Continuous	$-I_D$	1	A
Drain Current-Pulsed ^{Note1}	$-I_{DM}$	1.5	A
Maximum Power Dissipation	P_D	0.5	W
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Thermal Characteristics

Thermal Resistance, Junction-to-Ambient ^{Note2}	$R_{\theta JA}$	250	°C/W
--	-----------------	-----	------



PJM10H01PSA

P-Channel Enhancement Mode Power MOSFET

Electrical Characteristics

(Ta=25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Static Characteristics						
Drain-Source Breakdown Voltage	$-V_{(BR)DSS}$	$V_{GS}=0V, I_D=-250\mu A$	100	--	--	V
Zero Gate Voltage Drain Current	$-I_{DSS}$	$V_{DS}=-80V, V_{GS}=0V$	--	--	100	nA
Gate-Body Leakage Current	I_{GSS}	$V_{GS}=\pm 20V, V_{DS}=0V$	--	--	± 100	nA
Gate Threshold Voltage ^{Note3}	$-V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=-250\mu A$	1	--	2.5	V
Drain-Source On-Resistance ^{Note3}	$R_{DS(on)}$	$V_{GS}=-10V, I_D=-1A$	--	--	650	mΩ
		$V_{GS}=-6V, I_D=-0.5A$	--	--	700	mΩ
Switching Characteristics						
Turn-on Delay Time	$t_{d(on)}$	$V_{DD}=-50V, I_D=-1A$ $V_{GEN}=-10V, R_L=33\Omega, R_G=6\Omega$	--	7	11	nS
Turn-on Rise Time	t_r		--	11	17	nS
Turn-off Delay Time	$t_{d(off)}$		--	9	15	nS
Turn-off Fall Time	t_f		--	10	15	nS
Total Gate Charge	Q_g	$V_{DD}=-50V, I_D=-1A, V_{GS}=-10V$	--	3.3	4	nC
Gate-Source Charge	Q_{gs}		--	0.47	--	nC
Gate-Drain Charge	Q_{gd}		--	1.45	--	nC
Source-Drain Diode Characteristics						
Diode Forward Voltage ^{Note3}	$-V_{SD}$	$V_{GS}=0V, I_S=-0.5A$	--	--	1.3	V
Diode Forward Current ^{Note2}	$-I_S$		--	--	1	A

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

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

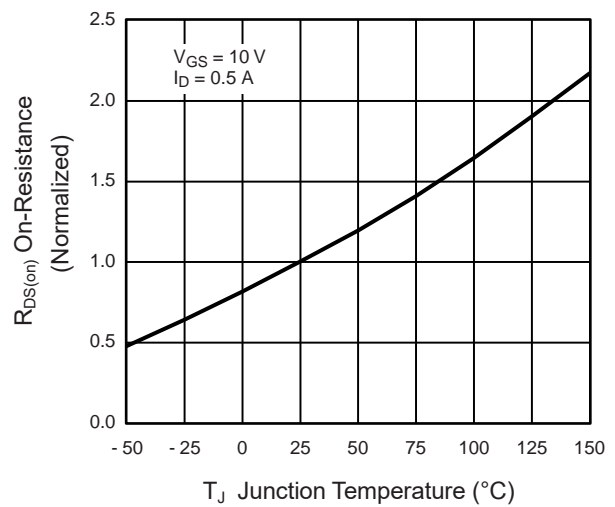
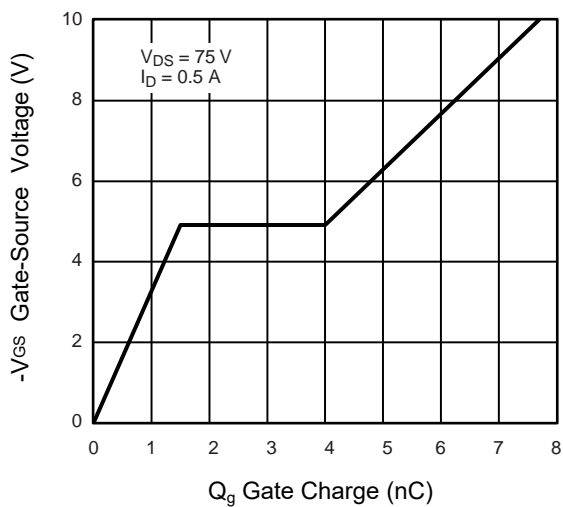
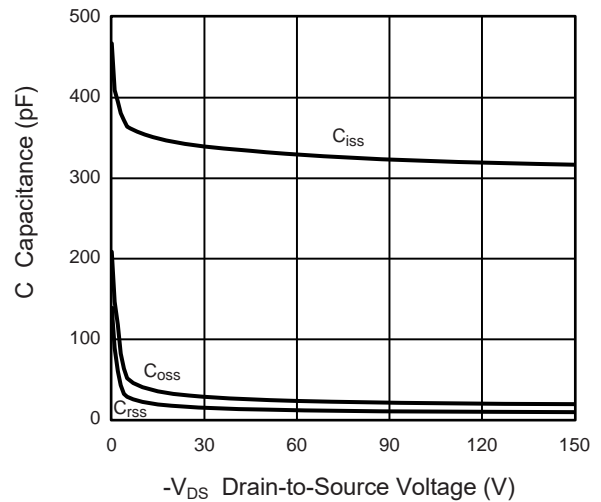
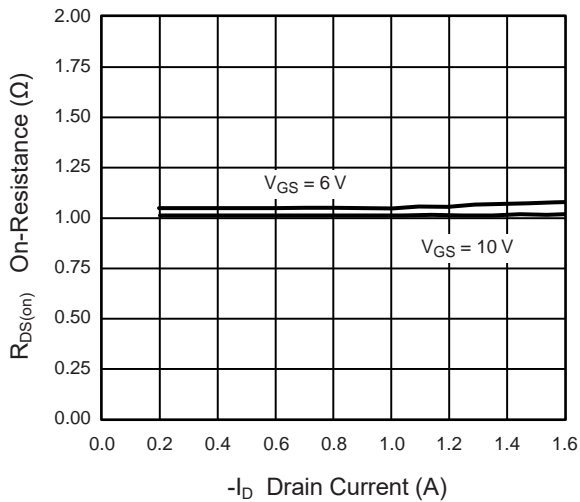
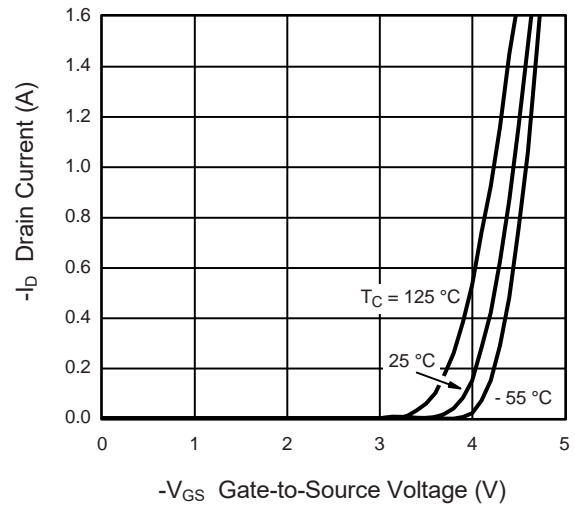
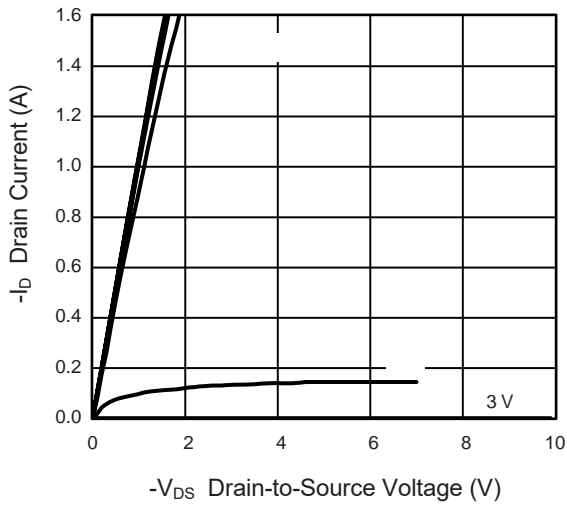
3. Pulse Test: Pulse width $\leq 300\mu s$, duty cycle $\leq 2\%$.



PJM10H01PSA

P-Channel Enhancement Mode Power MOSFET

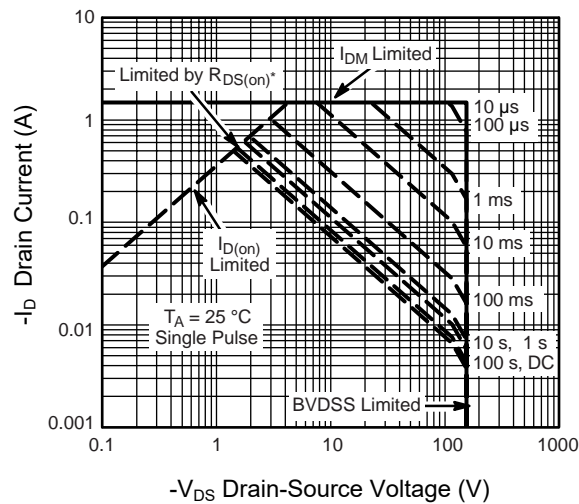
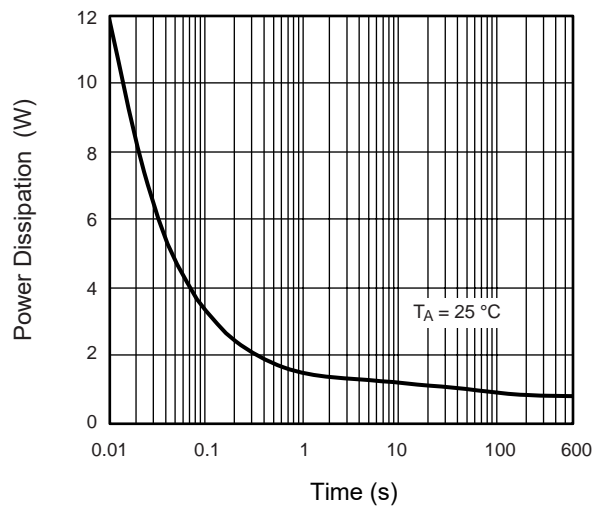
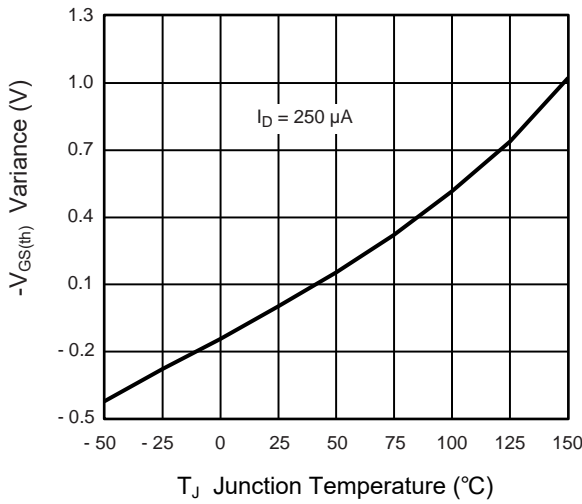
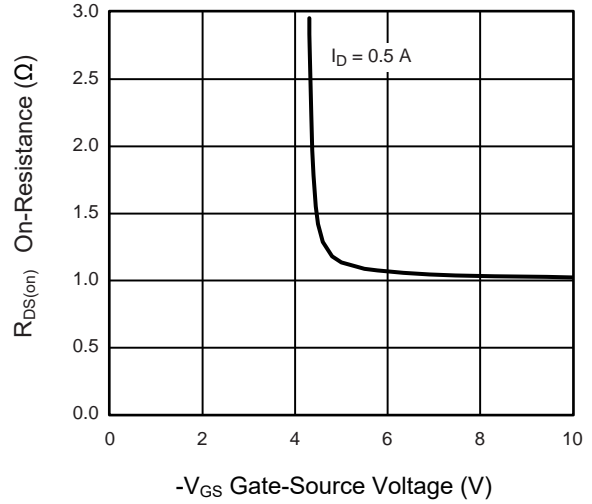
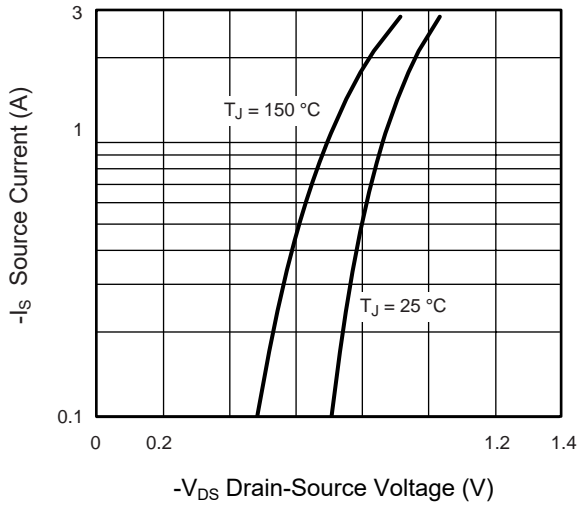
Typical Characteristic Curves





PJM10H01PSA

P-Channel Enhancement Mode Power MOSFET





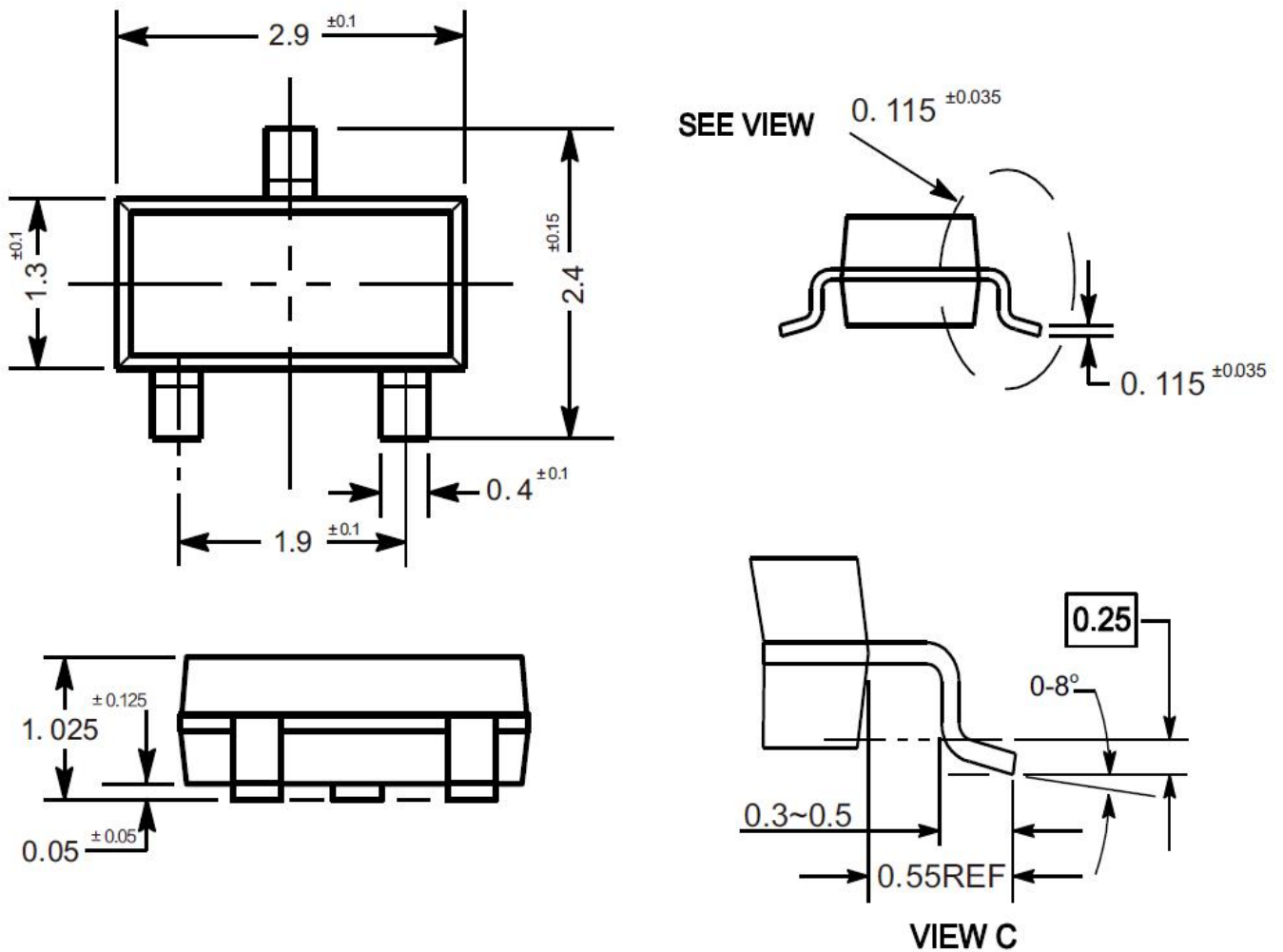
PJM10H01PSA

P-Channel Enhancement Mode Power MOSFET

Package Outline

SOT-23

Dimensions in mm



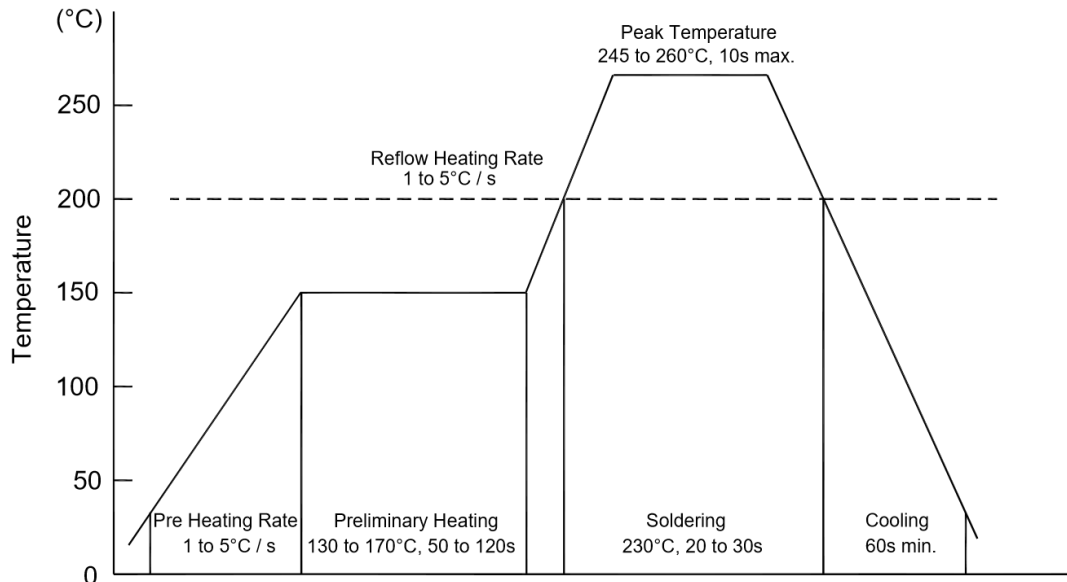
Ordering Information

Device	Package	Shipping
PJM10H01PSA	SOT-23	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

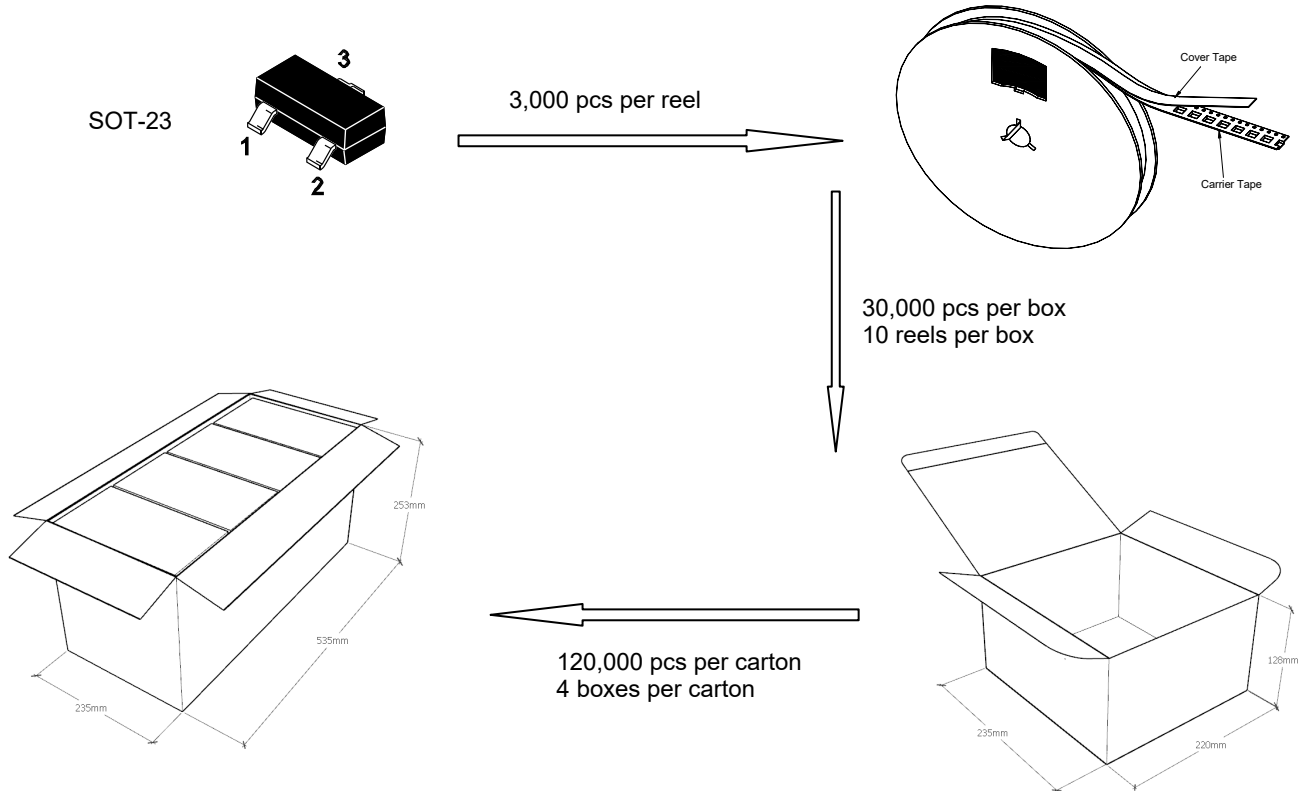
- Temperature: 370 °C
- Time: 3s max.
- Times: one time

◆ Storage conditions

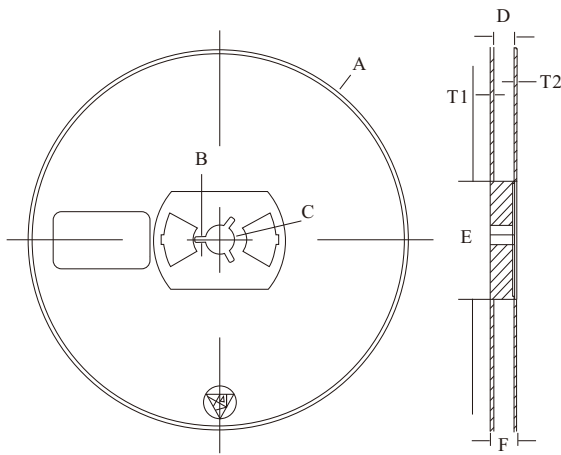
- **Temperature**
5 to 40 °C
- **Humidity**
30 to 80% RH
- **Recommended period**
One year after manufacturing

Package Specifications

- The method of packaging

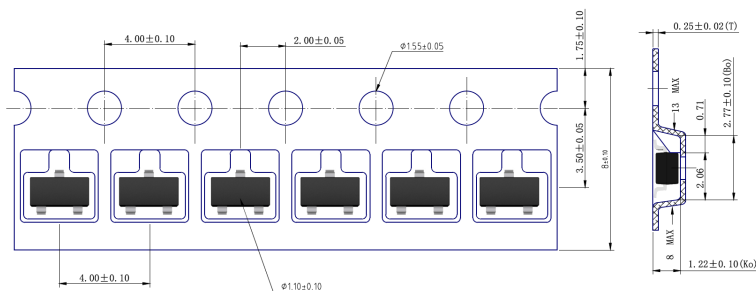


◆ Embossed tape and reel data



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

Reel (7")



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [MOSFET](#) category:

Click to view products by [Pingjingsemi](#) manufacturer:

Other Similar products are found below :

[614233C](#) [648584F](#) [MCH3443-TL-E](#) [MCH6422-TL-E](#) [NTNS3A92PZT5G](#) [IRFD120](#) [IRFF430](#) [JANTX2N5237](#) [2N7000](#) [AOD464](#)
[2SK2267\(Q\)](#) [2SK2545\(Q,T\)](#) [405094E](#) [423220D](#) [MIC4420CM-TR](#) [VN1206L](#) [614234A](#) [715780A](#) [SSM6J414TU,LF\(T](#) [751625C](#)
[IPS70R2K0CEAKMA1](#) [BSF024N03LT3 G](#) [PSMN4R2-30MLD](#) [TK31J60W5,S1VQ\(O](#) [2SK2614\(TE16L1,Q\)](#) [DMN1017UCP3-7](#)
[EFC2J004NUZTDG](#) [FCAB21350L1](#) [P85W28HP2F-7071](#) [DMN1053UCP4-7](#) [NTE2384](#) [NTE2969](#) [NTE6400A](#) [DMC2700UDMQ-7](#)
[DMN2080UCB4-7](#) [DMN61D9UWQ-13](#) [US6M2GTR](#) [DMN31D5UDJ-7](#) [SSM6P54TU,LF](#) [DMP22D4UFO-7B](#) [IPS60R3K4CEAKMA1](#)
[DMN1006UCA6-7](#) [DMN16M9UCA6-7](#) [STF5N65M6](#) [IRF40H233XTMA1](#) [IPSA70R950CEAKMA1](#) [IPSA70R2K0CEAKMA1](#) [STU5N65M6](#)
[C3M0021120D](#) [DMN6022SSD-13](#)