

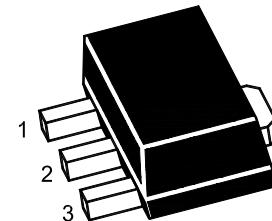
# PJM3400NSQ

## N-Channel Enhancement Mode Power MOSFET

### Features

- Low Gate Charge and  $R_{DS(on)}$
- High power and current handing capability
- $V_{DS} = 30V, I_D = 6A$
- $R_{DS(on)} < 28m\Omega @ V_{GS} = 10V$

SOT-89



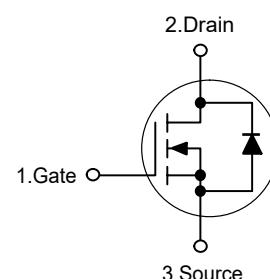
1. Gate 2. Drain 3. Source

**Marking Code: U0**

### Applications

- Load switch and in PWM applications
- Power management

**Schematic Diagram**



### Absolute Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Drain-Source Voltage	$V_{DS}$	30	V
Gate-Source Voltage	$V_{GS}$	$\pm 12$	V
Drain Current-Continuous	$I_D$	6	A
Drain Current-Pulsed <sup>Note1</sup>	$I_{DM}$	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

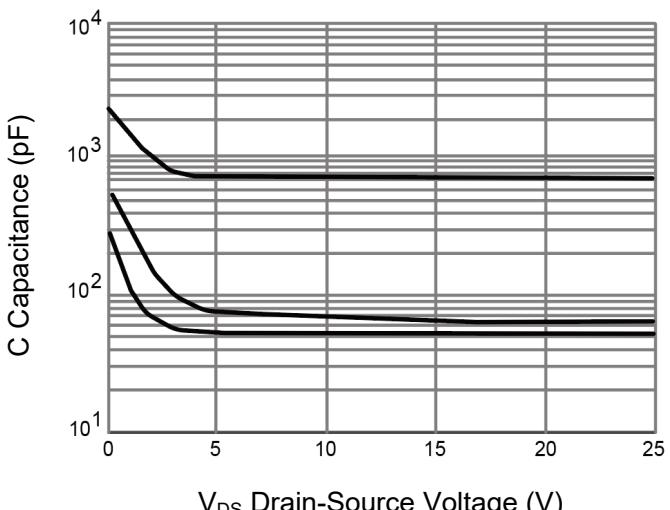
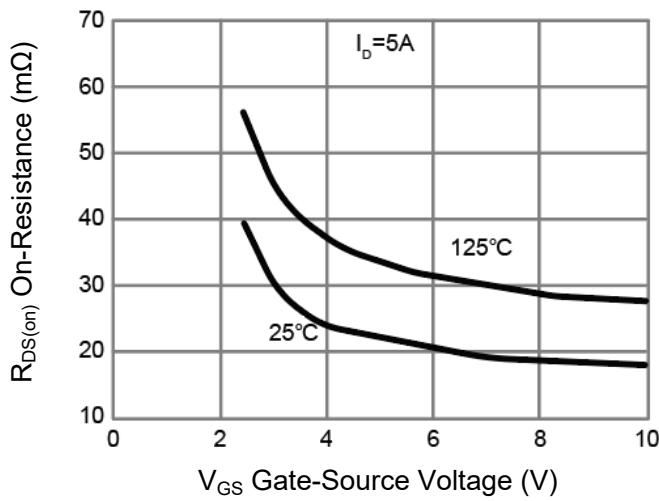
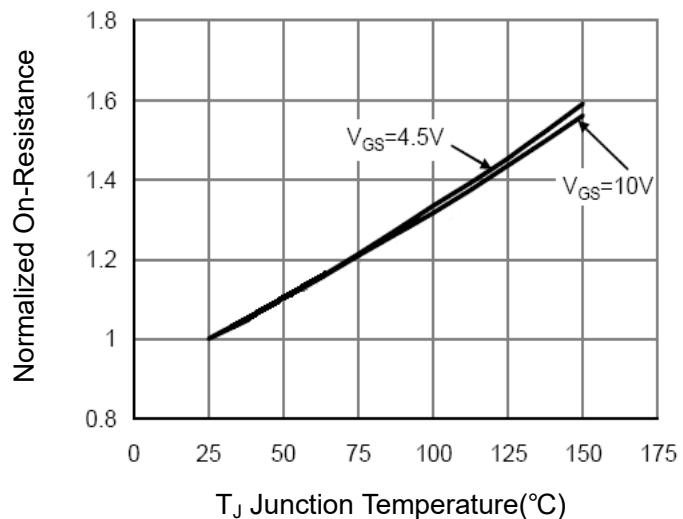
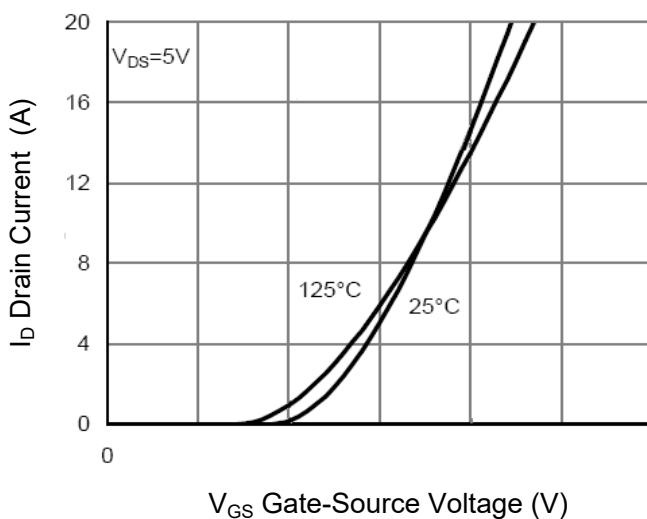
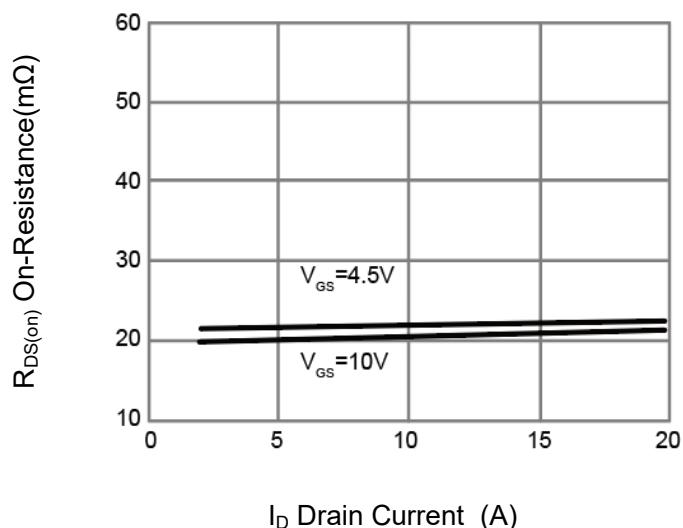
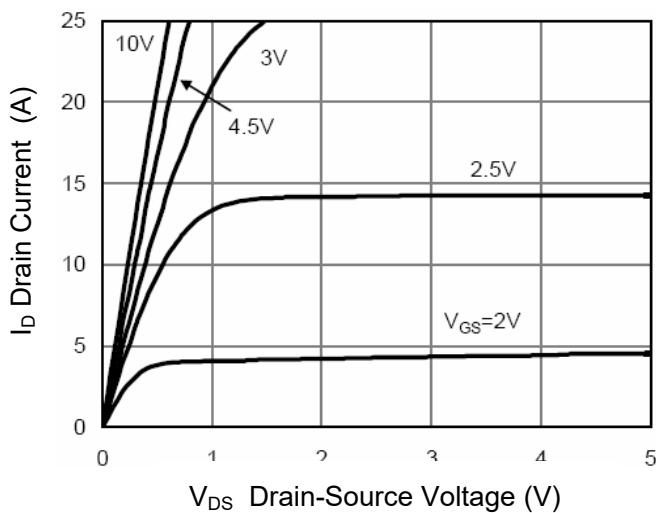
### Thermal Characteristics

Thermal Resistance, Junction-to-Ambient <sup>Note2</sup>	$R_{\theta JA}$	89	°C/W
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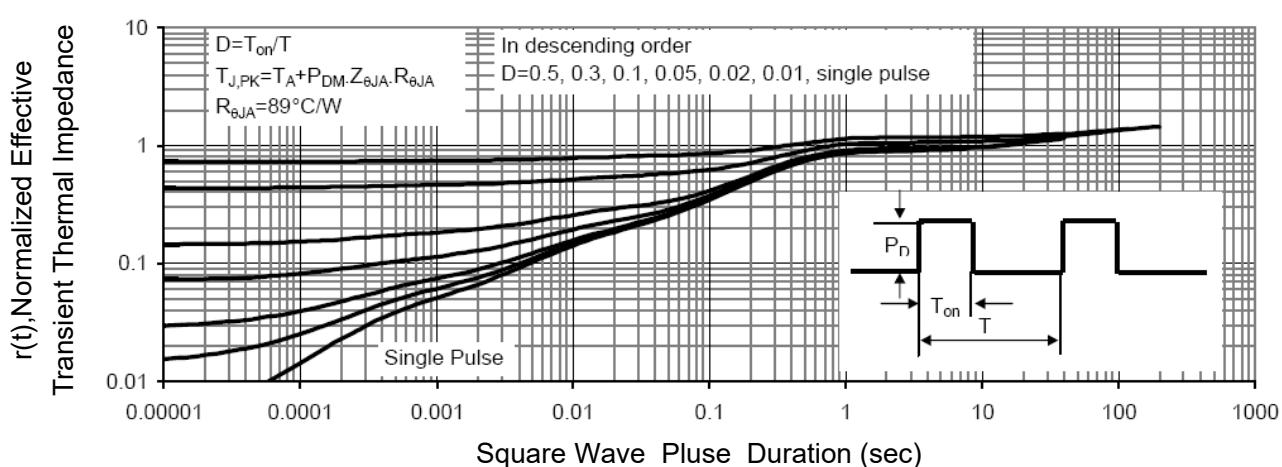
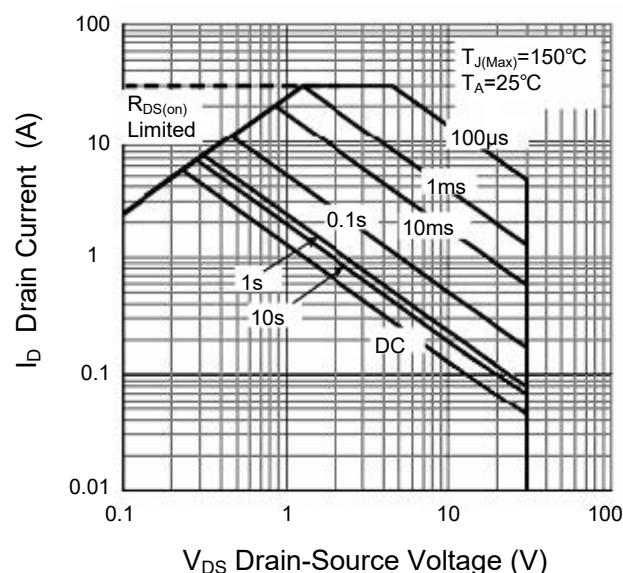
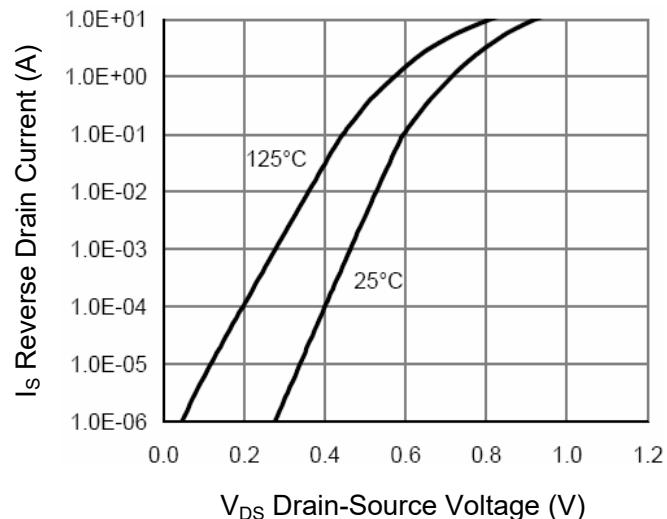
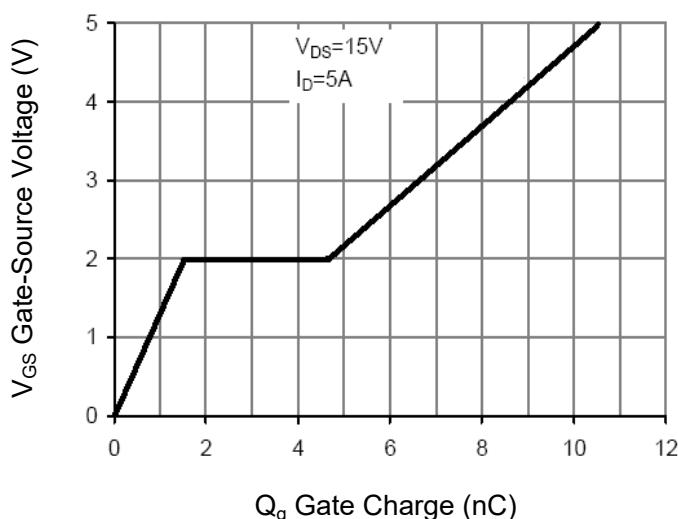
### Typical Characteristic Curves





# PJM3400NSQ

## N-Channel Enhancement Mode Power MOSFET

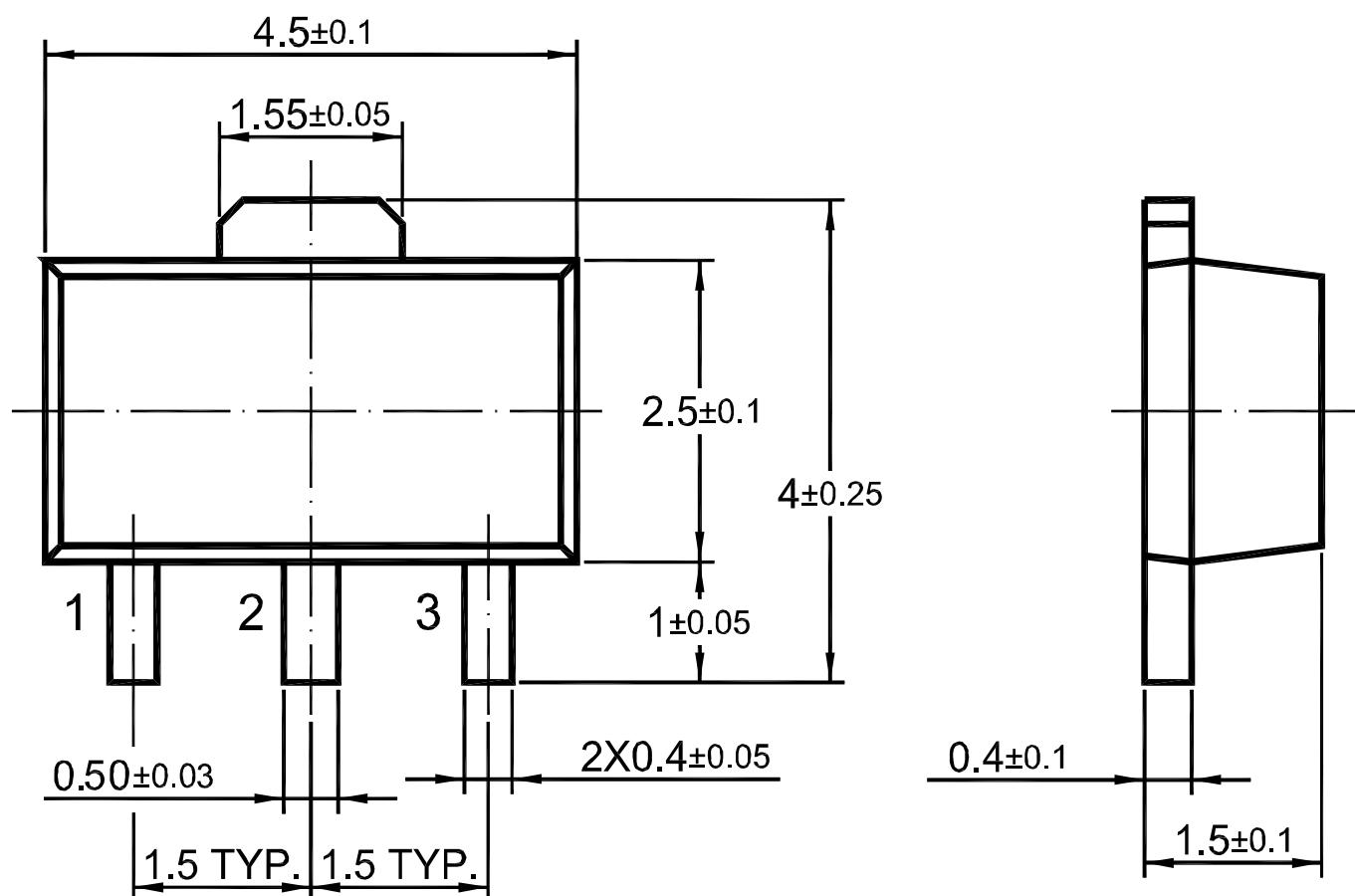




### Package Outline

SOT-89

Dimensions in mm



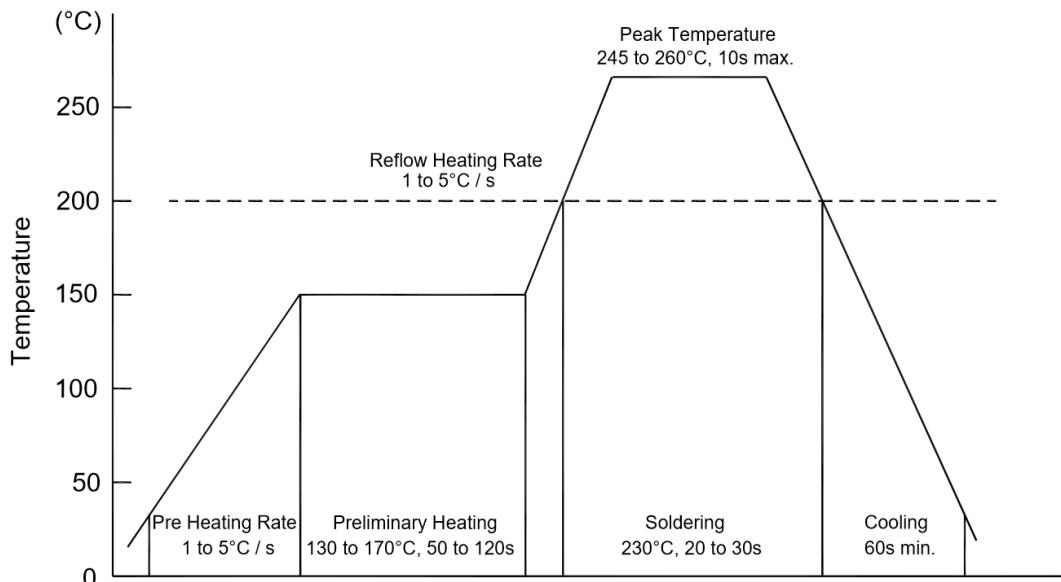
### Ordering Information

Device	Package	Shipping
PJM3400NSQ	SOT-89	1,000PCS/Reel&7inches
		3,000PCS/Reel&13inches



## 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:

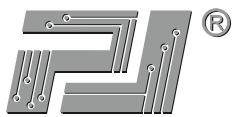
- Time length of peak temperature (longer)
- Time length of soldering (longer)
- Thickness of solder paste (thicker)

### ◆ Conditions of hand soldering

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

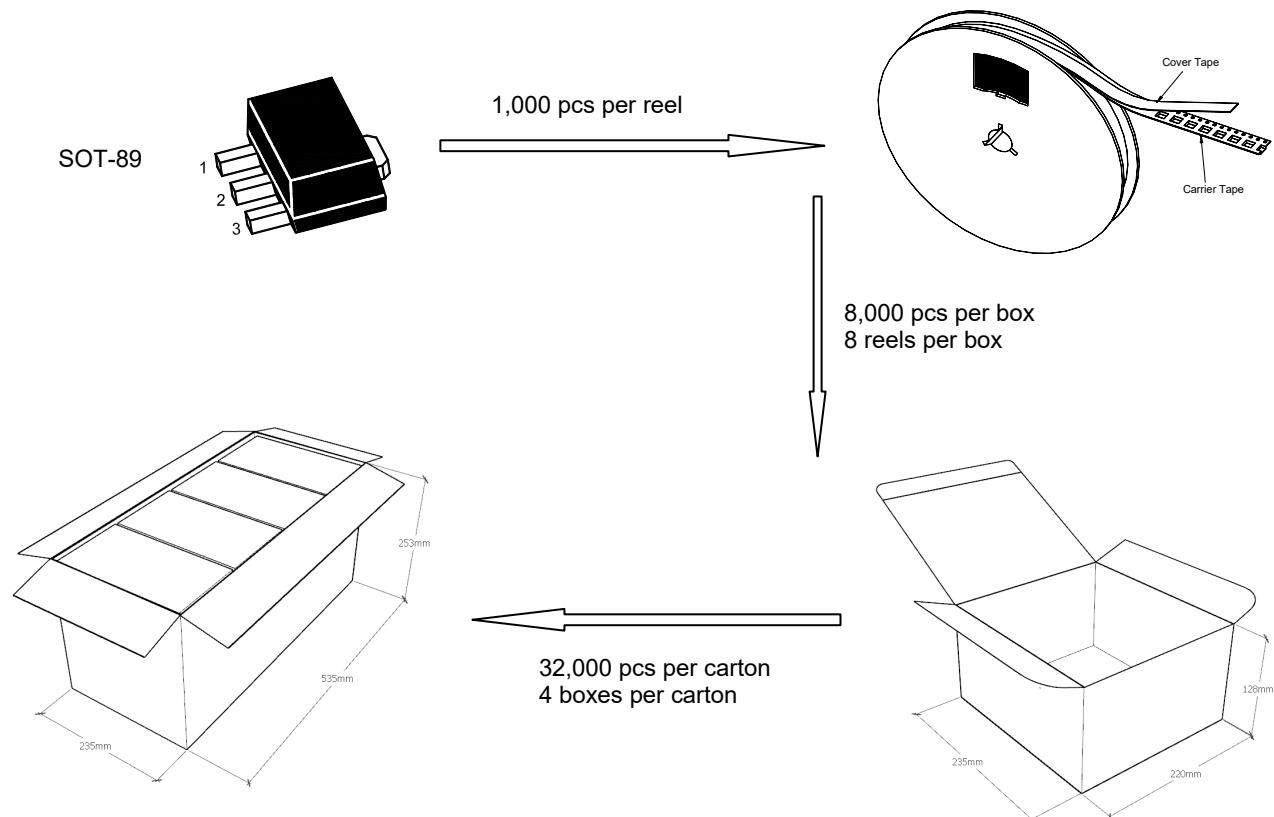
### ◆ Storage conditions

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

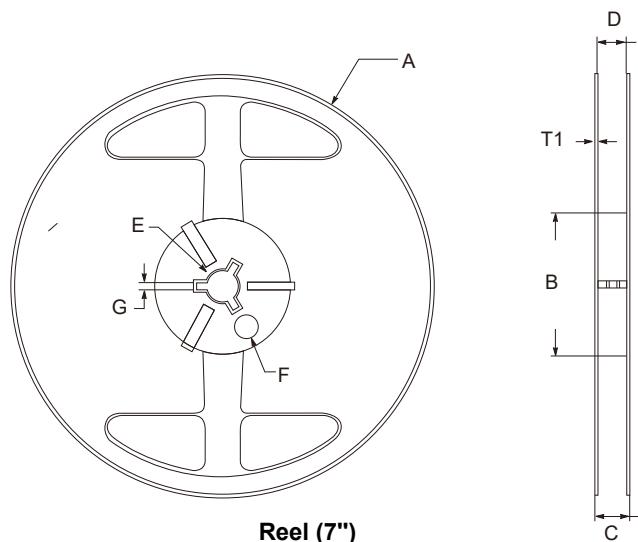


## Package Specifications

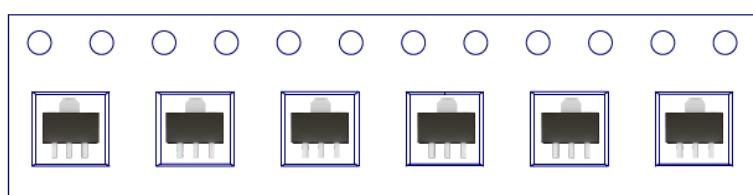
- The method of packaging (1,000PCS/Reel&7inches)



### ◆ Embossed tape and reel data



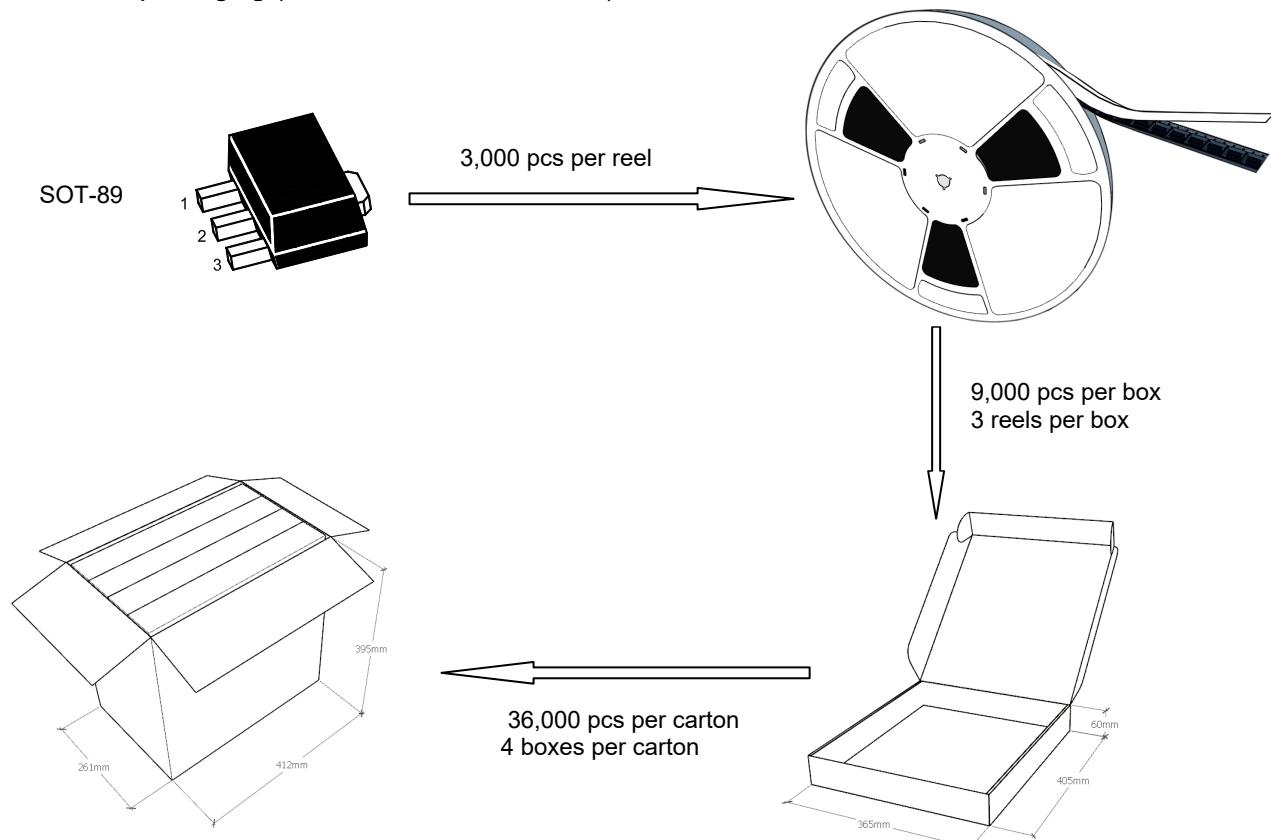
symbol	Value(unit:mm)
A	$\Phi 179 \pm 1$
B	60.5 $\pm 0.2$
C	15.3 $\pm 0.3$
D	12.5~13.7
E	$\Phi 13.5 \pm 0.2$
F	$\Phi 10.0 \pm 0.2$
G	2.7 $\pm 0.2$
T1	1.0 $\pm 0.2$



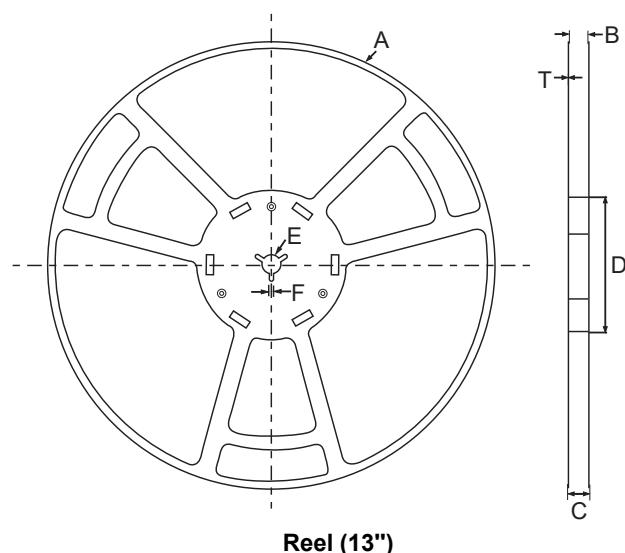


## Package Specifications

- The method of packaging (3,000PCS/Reel&13inches)



### ◆ Embossed tape and reel data



symbol	Value(unit:mm)
A	$\Phi 330 \pm 1$
B	$12.7 \pm 0.5$
C	$16.5 \pm 0.3$
D	$\Phi 99.5 \pm 0.5$
E	$\Phi 13.6 \pm 0.3$
F	$2.8 \pm 0.3$
T1	$1.9 \pm 0.2$

