

RoHS Compliant Product  
A suffix of "-C" specifies halogen and lead-free

## DESCRIPTION

SST3407J utilized advanced processing techniques to achieve the lowest possible on-resistance, extremely efficient and cost-effectiveness device. The SOT-26 package is universally used for all commercial-industrial applications.

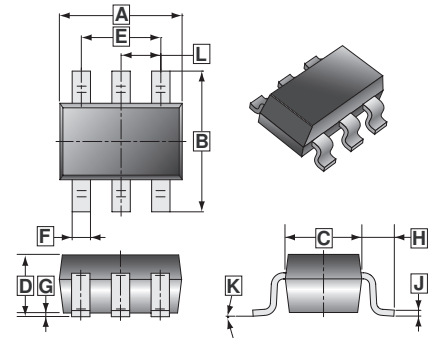
## FEATURES

- Simple Drive Requirement
- Smaller Outline Package
- Surface mount package

## MARKING

**R7**

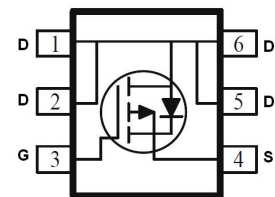
### SOT-26



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	0	0.10
B	2.60	3.00	H	0.60	REF.
C	1.40	1.80	J	0.12	REF.
D	1.30	MAX.	K	0°	10°
E	1.90	REF.	L	0.95	REF.
F	0.30	0.50			

## PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-26	3K	7 inch



## ABSOLUTE MAXIMUM RATINGS ( $T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	$V_{DS}$	-30	V
Gate-Source Voltage	$V_{GS}$	$\pm 20$	V
Continuous Drain Current	$I_D$	-4.1	A
Power Dissipation	$P_D$	0.35	W
Maximum Junction to Ambient	$R_{\theta JA}$	357	$^{\circ}\text{C} / \text{W}$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	150, -55~150	$^{\circ}\text{C}$

**ELECTRICAL CHARACTERISTICS** ( $T_A=25^\circ\text{C}$  unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
<b>Static Characteristics</b>						
Drain-Source Breakdown Voltage	$BV_{DSS}$	-30	-	-	V	$V_{GS}=0, I_D = -250\mu\text{A}$
Drain-Source Leakage Current	$I_{DSS}$	-	-	-1	$\mu\text{A}$	$V_{DS} = -24\text{V}, V_{GS}=0$
Gate-Body Leakage Current	$I_{GSS}$	-	-	$\pm 100$	nA	$V_{DS}=0\text{V}, V_{GS}=\pm 20\text{V}$
Drain-Source On-Resistance <sup>1</sup>	$R_{DS(ON)}$	-	-	60	m $\Omega$	$V_{GS} = -10\text{V}, I_D = -4.1\text{A}$
		-	-	87		$V_{GS} = -4.5\text{V}, I_D = -3\text{A}$
Forward Transconductance <sup>1</sup>	$g_{fs}$	5.5	-	-	S	$V_{DS} = -5\text{V}, I_D = -4\text{A}$
Gate-Threshold Voltage	$V_{GS(th)}$	-1	-	-3	V	$V_{DS}=V_{GS}, I_D = -250\mu\text{A}$
Diode Forward Voltage <sup>1</sup>	$V_{SD}$	-	-	-1	V	$I_S = -1\text{A}, V_{GS} = 0$
<b>Dynamic Characteristics <sup>2</sup></b>						
Input Capacitance	$C_{iss}$	-	700	-	pF	$V_{GS}=0$ $V_{DS} = -15\text{V},$ $f=1.0\text{MHz}$
Output Capacitance	$C_{oss}$	-	120	-		
Reverse Transfer Capacitance	$C_{rss}$	-	75	-		
<b>Switching Characteristics <sup>2</sup></b>						
Turn-on Delay Time	$T_{d(on)}$	-	8.6	-	nS	$V_{GS} = -10\text{V},$ $V_{DS} = -15\text{V},$ $R_{GEN}=3\Omega,$ $R_L=3.6\Omega$
Rise Time	$T_r$	-	5	-		
Turn-off Delay Time	$T_{d(off)}$	-	28.2	-		
Fall Time	$T_f$	-	13.5	-		

Notes:

1. Pulse Test : Pulse width  $\leq 300\mu\text{s}$ , duty cycle  $\leq 2\%$ .
2. These parameters have no way to verify.

**CHARACTERISTIC CURVES**

