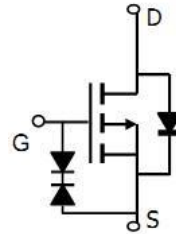




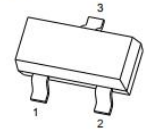
## FS3415

### SOT-23-3L 場效應晶體管(SOT-23-3L Field Effect Transistors)



SOT-23 -3L

- 1. GATE
- 2. SOURCE
- 3. DRAIN



#### P-Channel Enhancement-Mode MOS FETs

#### Q-P 沟道增强型 MOS 场效应管

#### ■ MAXIMUM RATINGS 最大額定值

Characteristic 特性參數	Symbol 符號	Rat 額定值	Unit 單位
Drain-Source Voltage 漏極-源極電壓	$BV_{DSS}$	-20	V
Gate- Source Voltage 柵極-源極電壓	$V_{GS}$	$\pm 10$	V
Drain Current (continuous) 漏極電流-連續	$I_D$	-4.5	A
Drain Current (pulsed) 漏極電流-脈沖	$I_{DM}$	-18	A
Total Device Dissipation 總耗散功率 $T_A=25^{\circ}\text{C}$ 環境溫度為 $25^{\circ}\text{C}$	$P_D$	1300	mW
ESD Rating 靜電保護範圍	ESD	2000V HBM	
Junction 結溫	$T_J$	150	$^{\circ}\text{C}$
Storage Temperature 儲存溫度	$T_{stg}$	-55to+150	$^{\circ}\text{C}$

#### ■ DEVICE MARKING 打標

**FS3415=AFHV21**



## FS3415

### ■ ELECTRICAL CHARACTERISTICS 電特性

( $T_A=25^{\circ}\text{C}$  unless otherwise noted 如無特殊說明, 溫度為  $25^{\circ}\text{C}$ )

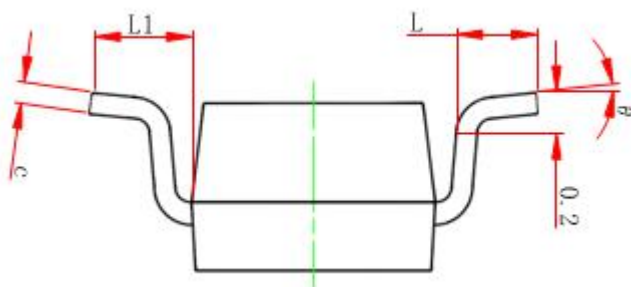
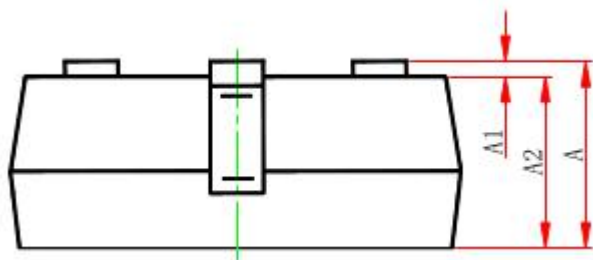
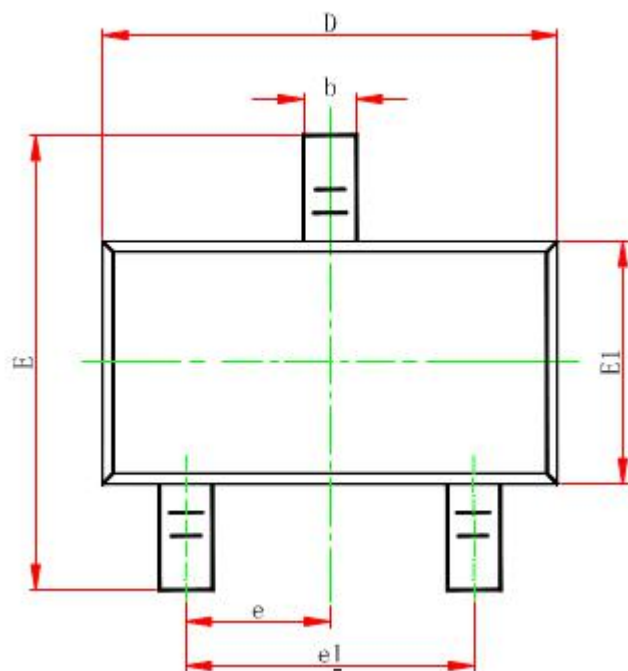
Characteristic 特性參數	Symbol 符號	Min 最小值	Typ 典型值	Max 最大值	Unit 單位
Drain-Source Breakdown Voltage 漏極-源極擊穿電壓( $I_D = -250\mu\text{A}, V_{GS}=0\text{V}$ )	$BV_{DSS}$	-20	-22	—	V
Gate Threshold Voltage 柵極開啓電壓( $I_D = -250\mu\text{A}, V_{GS} = V_{DS}$ )	$V_{GS(th)}$	-0.3	-0.6	-1	V
Diode Forward Voltage Drop 內附二極管正向壓降( $I_S = -1\text{A}, V_{GS}=0\text{V}$ )	$V_{SD}$	—	-0.8	-1.5	V
Zero Gate Voltage Drain Current 零柵壓漏極電流( $V_{GS}=0\text{V}, V_{DS} = -16\text{V}$ ) ( $V_{GS}=0\text{V}, V_{DS} = -16\text{V}, T_A=55^{\circ}\text{C}$ )	$I_{DSS}$	—	—	-1 -10	$\mu\text{A}$
Gate Body Leakage 柵極漏電流( $V_{GS}=\pm 8\text{V}, V_{DS}=0\text{V}$ )	$I_{GSS}$	—	—	$\pm 10$	$\mu\text{A}$
Static Drain-Source On-State Resistance 靜態漏源導通電阻( $I_D = -4\text{A}, V_{GS} = -4.5\text{V}$ )	$R_{DS(ON)}$	—	30	40	$\text{m}\Omega$
Static Drain-Source On-State Resistance 靜態漏源導通電阻( $I_D = -3\text{A}, V_{GS} = -2.5\text{V}$ )	$R_{DS(ON)}$	—	40	50	$\text{m}\Omega$
Static Drain-Source On-State Resistance 靜態漏源導通電阻( $I_D = -2\text{A}, V_{GS} = -1.8\text{V}$ )	$R_{DS(ON)}$	—	50	68	$\text{m}\Omega$
Input Capacitance 輸入電容 ( $V_{GS}=0\text{V}, V_{DS} = -10\text{V}, f=1\text{MHz}$ )	$C_{ISS}$	—	1100	—	pF
Output Capacitance 輸出電容 ( $V_{GS}=0\text{V}, V_{DS} = -10\text{V}, f=1\text{MHz}$ )	$C_{OSS}$	—	195	—	pF
Reverse Transfer Capacitance 回饋電容 ( $V_{GS}=0\text{V}, V_{DS} = -10\text{V}, f=1\text{MHz}$ )	$C_{RSS}$	—	105	—	pF
Total Gate Charge 柵極電荷密度 ( $V_{DS} = -10\text{V}, I_D = -4\text{A}, V_{GS} = -4.5\text{V}$ )	$Q_g$	—	13	—	nS
Forward Trans-conductance 正向傳輸導納 ( $V_{DS} = -5\text{V}, I_D = -4\text{A}$ )	$g_{FS}$	8	—	—	S
Turn-ON Time 開啓時間 ( $V_{DS} = -10\text{V}, I_D = -2.8\text{A}, R_{GEN}=6\Omega$ )	$t_{(on)}$	—	9.5	—	ns
Turn-OFF Time 關斷時間 ( $V_{DS} = -10\text{V}, I_D = -2.8\text{A}, R_{GEN}=6\Omega$ )	$t_{(off)}$	—	94	—	ns

Pulse Width  $\leq 300\mu\text{s}$ ; Duty Cycle  $\leq 2.0\%$

## FS3415

### ■ DIMENSION 外形封裝尺寸

單位(UNIT): mm



代碼	范围(单位: mm)
A	1.050~1.250
A1	0.000~0.100
A2	1.050~1.150
b	0.300~0.500
c	0.100~0.200
D	2.820~3.020
E1	1.500~1.700
E	2.650~2.950
e	0.950(BSC)
e 1	1.800~2.00
L	0.300~0.600
L1	0.600REF.
θ	0°~8°

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