

查询"2SK3674-01"供应商

2SK3674-01L,S,SJ (900V/2.0Ω/7A)

1) Package

T-PACK L ··· See Page 2/4
 S ··· See Page 3/4
 SJ ··· See Page 4/4

2) Absolute Maximum Ratings (Tc=25 unless otherwise specified)

Items	Symbols	Ratings	Units
Drain-Source Voltage	V_{DS}	900	V
Continuous Drain Current	I_D	±7	A
Pulsed Drain Current	$I_{D(pulse)}$	±28	A
Gate-Source Voltage	V_{GS}	±30	V
Repetitive and Non-Repetitive Maximum Avalanche Current	I_{AR}	7	A
Non-Repetitive Maximum Avalanche Energy	E_{AS}	269.5	mJ *1
Maximum Drain-Source dV/dt	dV/dt	20	kV/us
Peak Diode recovery dV/dt	dV/dt	5	kV/us *2
Maximum Power Dissipation	$P_D @ T_c=25$	225	W
	$P_D @ T_a=25$	1.67	W
Operating and Storage	T_{ch}	150	
Temperature range	T_{stg}	-55 ~ +150	

3) Electrical Characteristics (Tch=25 unless otherwise specified)

Items	Symbols	Test Conditions	min.	typ.	max.	Units
Drain-Source Breakdown Voltage	BV_{DSS}	$I_D=250\mu A$ $V_{GS}=0V$	900	---	---	V
Gate Threshold Voltage	$V_{GS(th)}$	$I_D=250\mu A$ $V_{DS}=V_{GS}$	3.0	---	5.0	V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=900V$ $T_{ch}=25$	---	---	50	μA
		$V_{GS}=0V$ $T_{ch}=125$	---	---	500	μA
Gate-Source Leakage Current	I_{GSS}	$V_{GS}=\pm 30V$ $V_{DS}=0V$	---	---	100	nA
Drain-Source On-State Resistance	$R_{DS(on)}$	$I_D=3.5A$ $V_{GS}=10V$	---	---	2.0	Ω
Input Capacitance	C_{iss}	$V_{DS}=25V$	---	980	---	pF
Output Capacitance	C_{oss}	$V_{GS}=0V$	---	120	---	
Reverse Transfer Capacitance	C_{rss}	$f=1MHz$	---	6	---	
Total Gate Charge	Q_g	$V_{cc}=450V$	---	28	---	nC
Gate to Source Charge	Q_{gs}	$I_D=7A$	---	9	---	
Gate to Drain (Miller) Charge	Q_{gd}	$V_{GS}=10V$	---	8	---	
Avalanche Capability	I_{AV}	$L=10.1mH$ $T_{ch}=25$	7	---	---	A
Diode Forward On-Voltage	V_{SD}	$I_F=7A, V_{GS}=0V, T_{ch}=25$	---	1.0	1.5	V

4) Thermal Characteristics

Items	Symbols	Test Conditions	min.	typ.	max.	Units
Channel to Case	$R_{th(ch-c)}$				0.56	/W
Channel to Ambient	$R_{th(ch-a)}$				75.0	/W

*1 L=10.1mH, Vcc=90V

*2 $I_F \leq -I_D$, $-di/dt=50A/\mu s$, $V_{cc} \leq BV_{DSS}$, $T_{ch} \leq 150^\circ C$

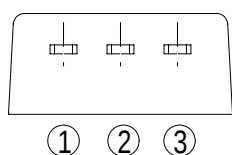
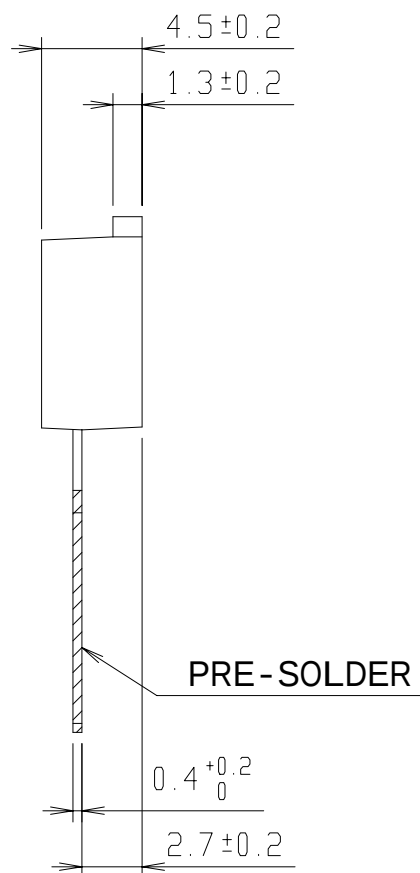
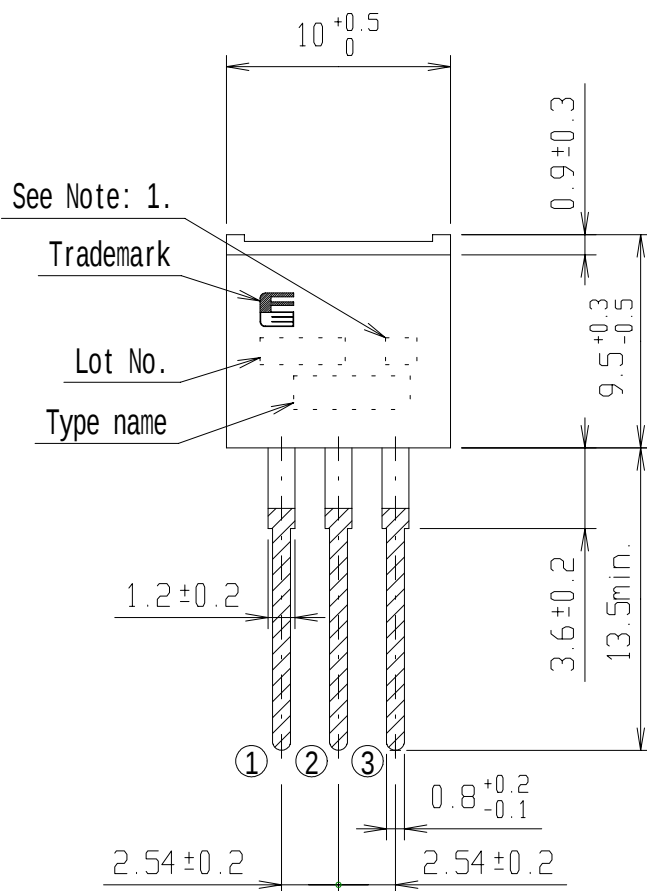
	DATE	NAME	APPROVED	Fuji Electric Co.,Ltd.	
DRAWN	Sep. -10- '02	T. Kuboyama	T. Hosen	MT5F12615 1/4	
CHECKED	Sep. -10- '02	T. Yamada			

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REVISIONS

MA4LE

FUJI POWER MOS FET



CONNECTION

- ① GATE
- ② DRAIN
- ③ SOURCE

JEDEC : TO-220AB

Note: 1. Guaranteed mark of avalanche ruggedness.

DIMENSIONS ARE IN MILLIMETERS.

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FUJI POWER MOS FET

OUT VIEW

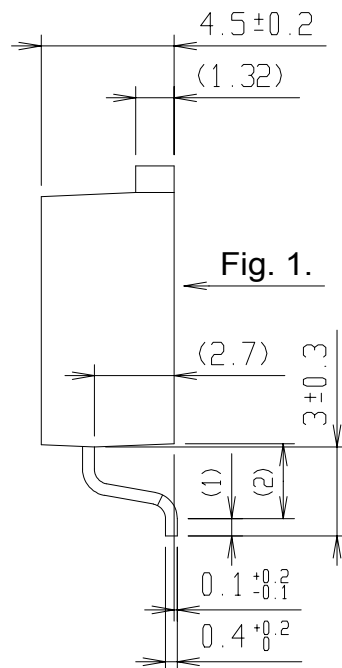
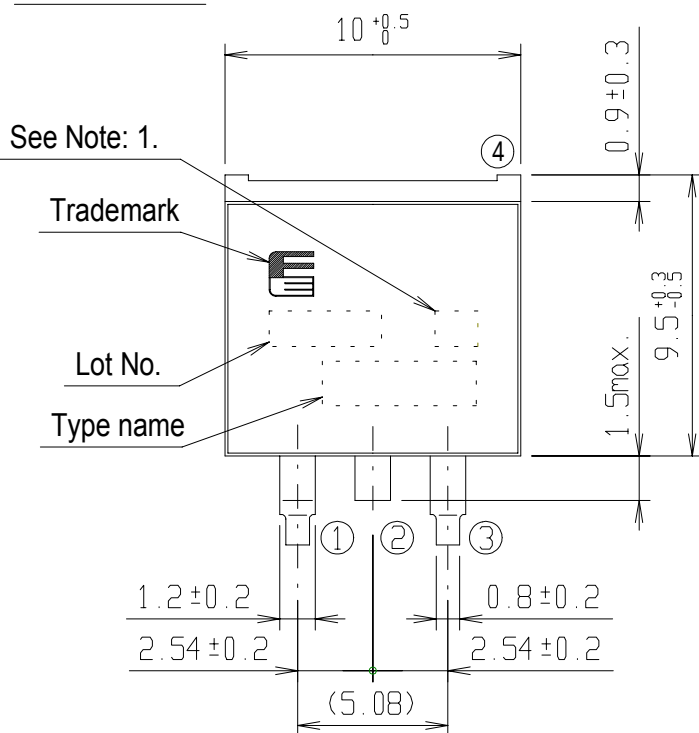
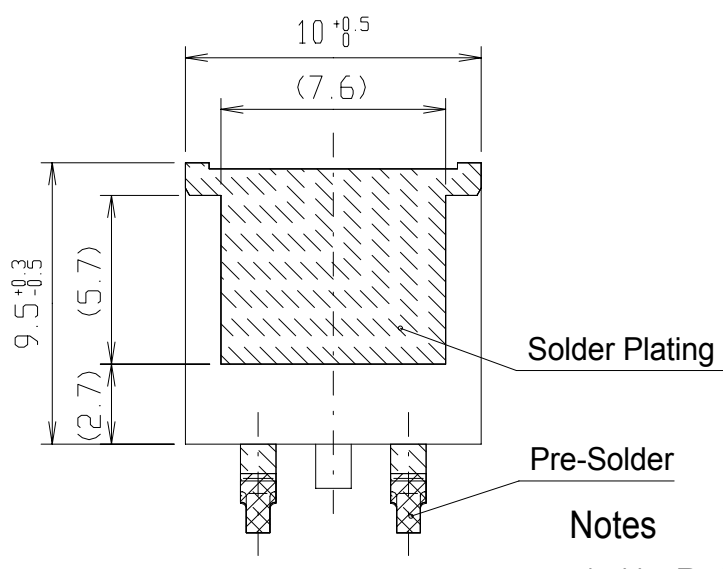


Fig. 1.



CONNECTION

- ① GATE
- ④ ② DRAIN
- ③ SOURCE

Notes

Note: 1. Guaranteed mark of avalanche ruggedness.

1. () : Reference dimensions.

2. The metal part is covered with the solder plating, part of cutting is without the solder plating.

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OUT VIEW

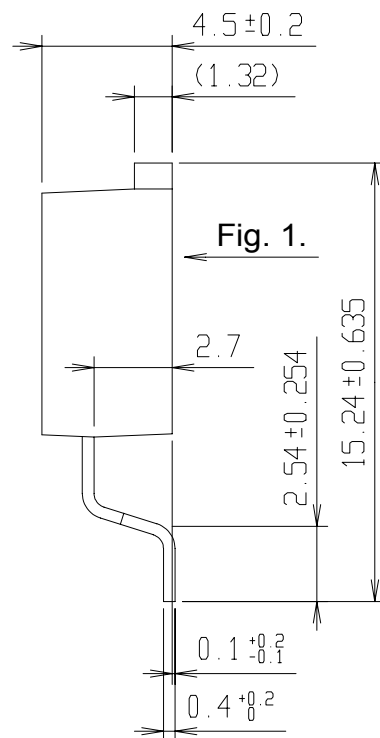
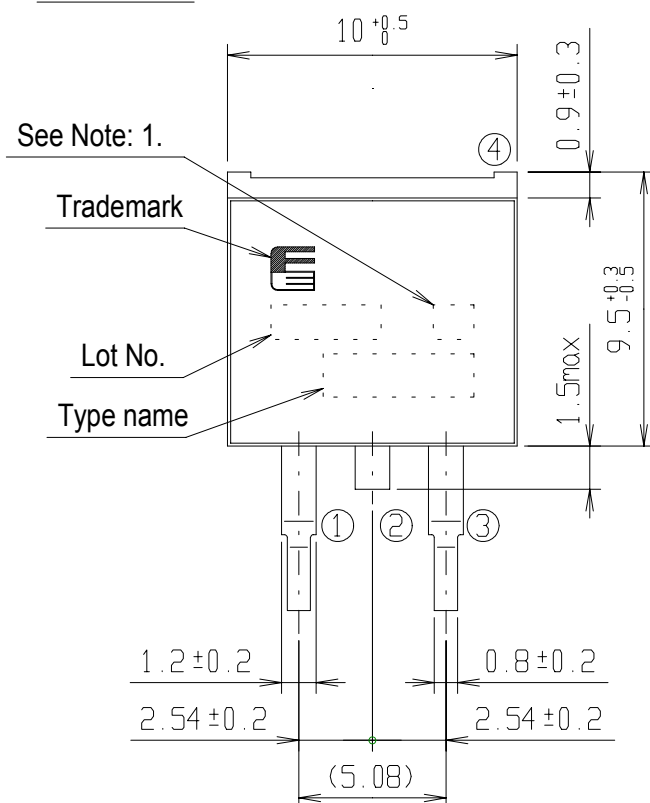
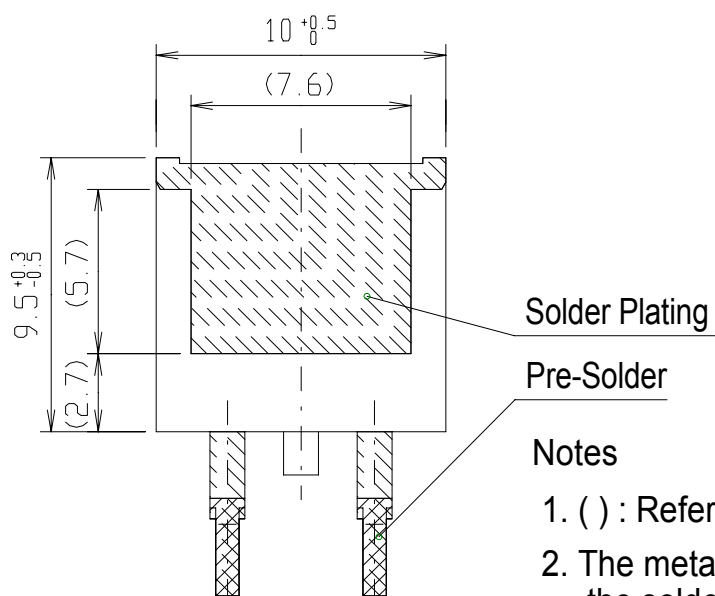


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