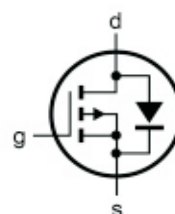
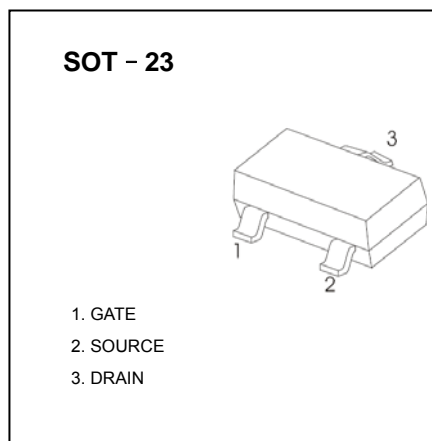
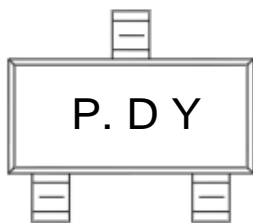


## P-Channel Enhancement Mode MOSFET

### Features

- $V_{DS} (V) = -50V$
- $I_D = -0.13 A$
- $R_{DS(ON)} \leq 10 \Omega$  ( $V_{GS} = -5V$ )

### MARKING



### Absolute Maximum Ratings $T_a = 25^\circ C$ unless otherwise specified

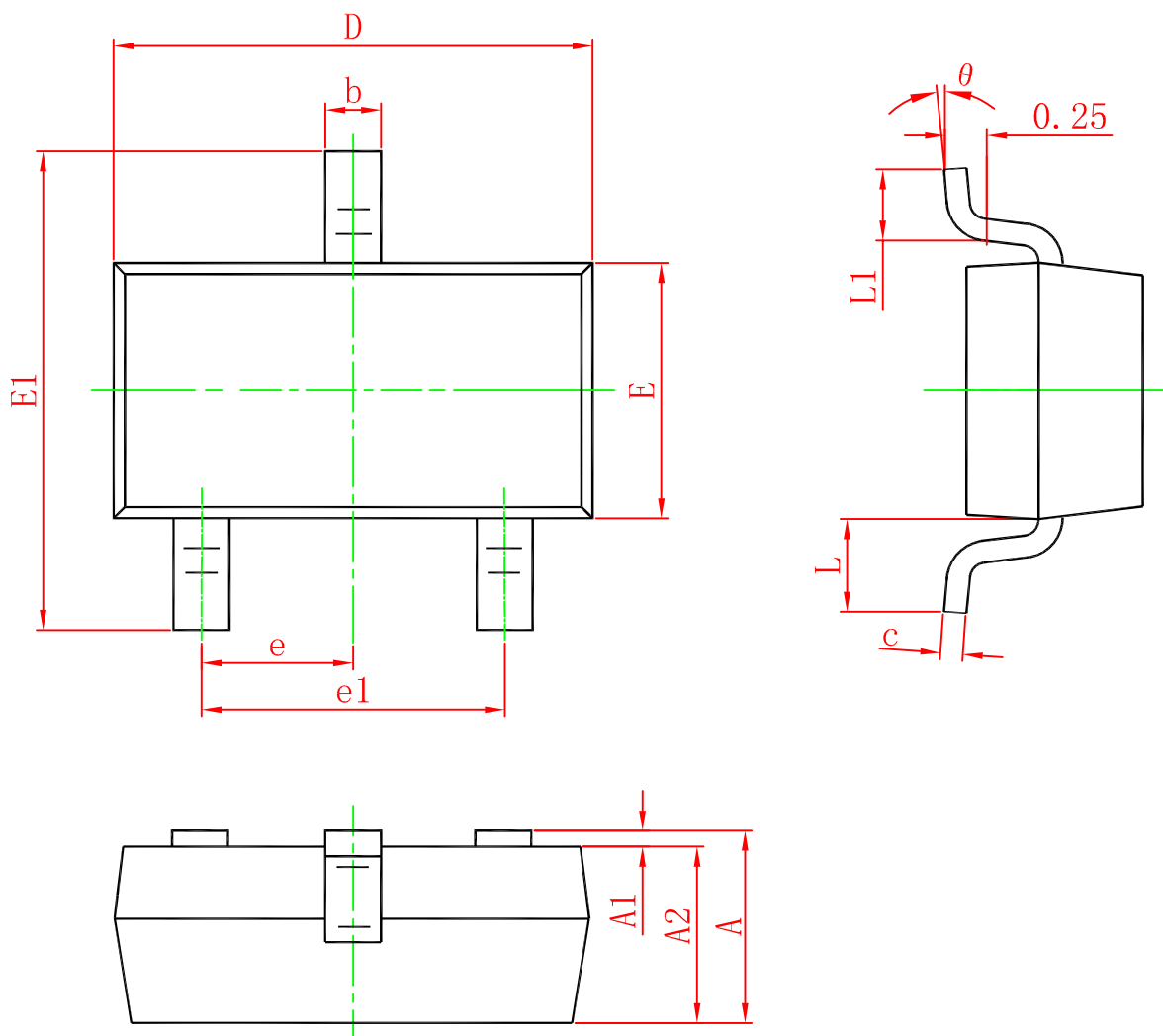
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	$V_{DSS}$	-50	V
Gate-Source Voltage	$V_{GSS}$	$\pm 20$	V
Drain Current *	$I_D$	- Continuous	-130
		- Pulsed	-520
Total Power Dissipation *	$P_d$	300	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	417	$^\circ C/W$
Operating and Storage Temperature Range	$T_j, T_{STG}$	-55 to +150	$^\circ C$

\* Device mounted on FR-4 PCB, 1 inch x 0.85 inch x 0.062 inch;

### Electrical Characteristics $T_a = 25^\circ C$ unless otherwise specified

Parameter	Symbol	Test conditons	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	$BV_{DSS}$	$V_{GS} = 0V, I_D = -250\mu A$	-50			V
Zero Gate Voltage Drain Current	$I_{DSS}$	$V_{DS} = -50V, V_{GS} = 0V, T_J = 25^\circ C$			-15	$\mu A$
		$V_{DS} = -50V, V_{GS} = 0V, T_J = 125^\circ C$			-60	$\mu A$
Gate-Body Leakage	$I_{GSS}$	$V_{GS} = \pm 20V, V_{DS} = 0V$			$\pm 10$	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS} = V_{GS}, I_D = -1mA$	-0.8		-2.0	V
Static Drain-Source On-Resistance	$R_{DS(ON)}$	$V_{GS} = -5V, I_D = -100mA$			10	$\Omega$
Forward Transconductance	$g_{FS}$	$V_{DS} = -25V, I_D = -0.1A$	0.05			S
Input Capacitance	$C_{iss}$	$V_{DS} = -25V, V_{GS} = 0V, f = 1.0MHz$			45	pF
Output Capacitance	$C_{oss}$				25	pF
Reverse Transfer Capacitance	$C_{rss}$				12	pF
Turn-On Delay Time	$t_{d(ON)}$	$V_{DD} = -30V, I_D = -0.27A,$		10		ns
Turn-Off Delay Time	$t_{d(OFF)}$	$R_{GEN} = 50\Omega, V_{GS} = -10V$		18		ns

P-Channel Enhancement Mode MOSFET  
SOT-23 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP.		0.037 TYP.	
e1	1.800	2.000	0.071	0.079
L	0.550 REF.		0.022 REF.	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°