

Features

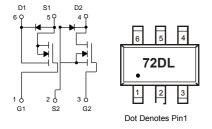
- High Density Cell Design For Low R_{DS(ON)}
- · Voltage Controlled Small Signal Switch
- · Epoxy Meets UL 94 V-0 Flammability Rating
- · Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

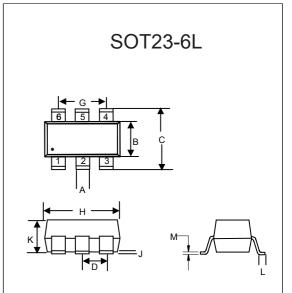
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 277°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	60	V
Gate-Source Voltage	V _{GS}	±20	V
Drain Current	I _D	115	mA
Total Power Dissipation	P _D	225	mW

Circuit and Pin Schematic



DUAL N-CHANNEL MOSFET



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.012	0.020	0.30	0.50		
В	0.051	0.070	1.30	1.80		
С	0.087	0.126	2.20	3.20		
D	0.037		0.95		TYP.	
G	0.074		1.90		TYP.	
Н	0.106	0.122	2.70	3.10		
J	0.002	0.006	0.05	0.15		
K	0.030	0.051	0.75	1.30		
L	0.012	0.024	0.30	0.60		
М	0.003	0.008	0.08	0.22		



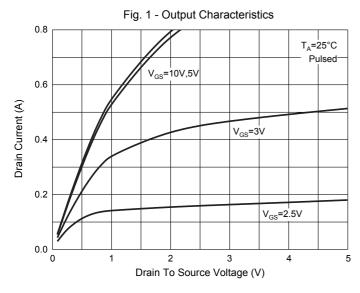
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

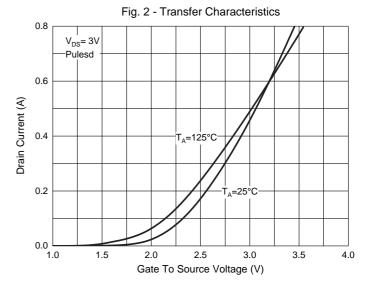
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Static Characteristics						
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =250μA	60			V
Gate-Threshold Voltage	$V_{GS(th)}$	V _{DS} =V _{GS} , I _D =250μA	1.0	1.4	2.5	V
Gate-Body Leakage Current	I _{GSS}	V _{GS} =±20V, V _{DS} =0V			±1	μΑ
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =60V, V _{GS} =0V			100	nA
On-State Drain Current	I _{D(ON)}	V _{DS} =7.0V, V _{GS} =10V	500			mA
Drain-Source On-Resistance	Б	V _{GS} =10V, I _D =500mA			4.5	0
	R _{DS(on)}	V _{GS} =5.0V, I _D =50mA			5.0	Ω
On-State Drain-Source Voltage	V _{DS(on)}	V _{GS} =10V, I _D =500mA			3.0	V
		V _{GS} =5V, I _D =50mA			0.375	
Dynami Characteristics						
Input Capacitance ⁽¹⁾	C _{iss}			10.1	50	pF
Output Capacitance ⁽¹⁾	C _{oss}	V _{DS} =25V,V _{GS} =0V, f=1MHz		4.2	25	
Reverse Transfer Capacitance ⁽¹⁾	C _{rss}			1.9	5	
Switching Characteristics						
Turn-On Delay Time ⁽¹⁾	t _{d(on)}	V_{DD} =10V, V_{GEN} =10V, R_L =20 Ω		5.6		
Turn-Off Delay Time ⁽¹⁾	t _{d(off)}	, I_D =500mA, R_{GEN} =10 Ω		25		ns
Source-Drain Diode Characte	ristics		ı			
Diode Forward Voltage	V _{SD}	V _{GS} =0V, I _S =150mA	0.6	0.82	1.0	V
Source Current Continuous	I _S				115	mA

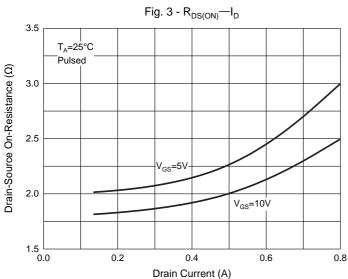
Note: 1. These Parameters Have No Way to Verify.

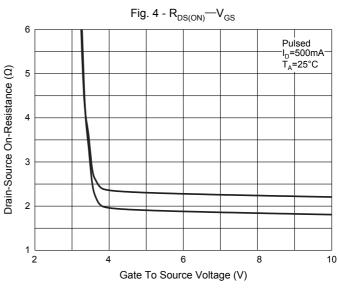


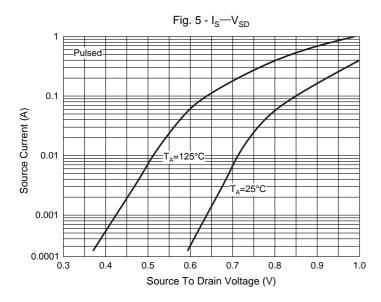
Curve Characteristics

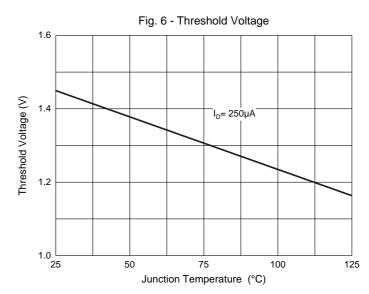














Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:3Kpcs/Reel

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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