

Features

- High Density Cell Design for Low R_{DS(ON)}
- Voltage Controlled Small Signal Switch
- ESD Protected up to 2KV (HBM)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

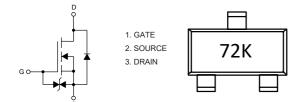
Maximum Ratings

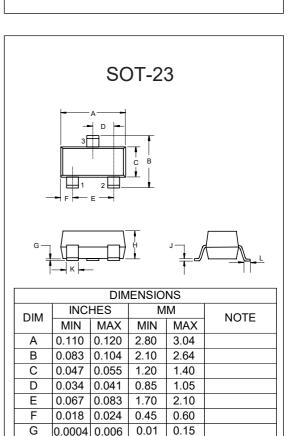
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit	
Drain-Source Voltage	V _{DS}	60	V	
Gate-Source Voltage	V _{GS}	±20	V	
Drain Current-Continuous	I _D	0.34	А	
Power Dissipation	P _D	0.35	W	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

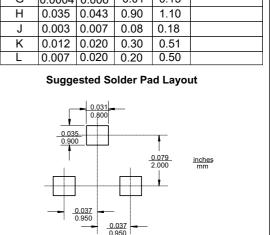
Internal Structure and Marking Code





N-Channel

MOSFET





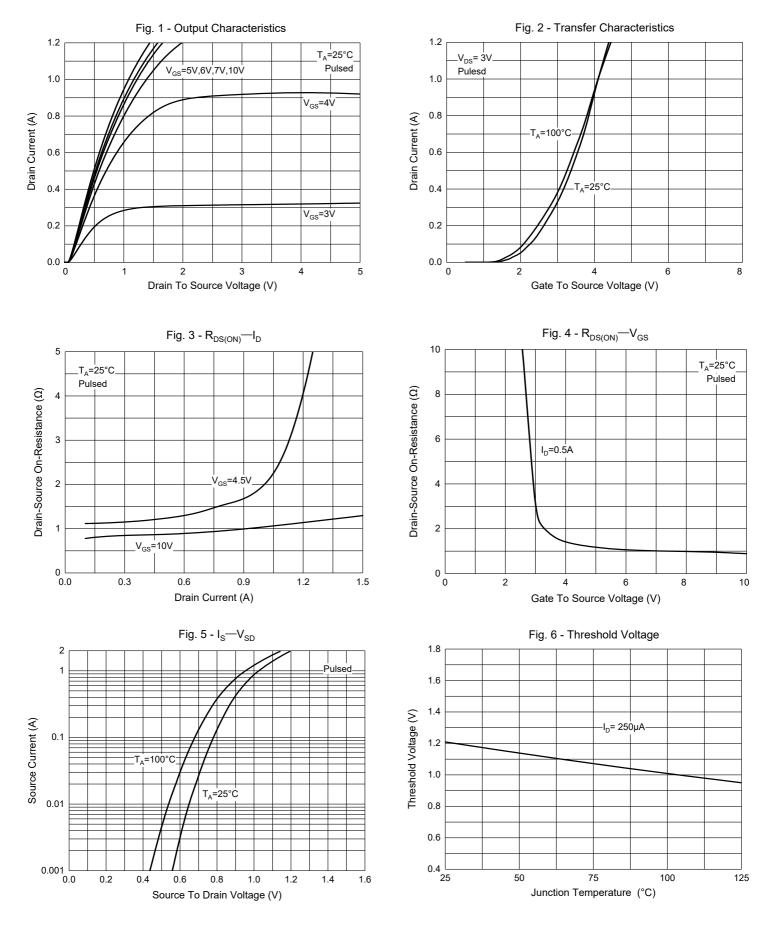
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Мах	Unit
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, Ι _D =Ϥ́ 0μΑ	60			V
Gate-Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =ĆÍ €µA	1.0	1.3	2.5	V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =48V, V _{GS} =0V			1.0	μA
Gate-Body Leakage	I _{GSS}	V_{DS} =0V, V_{GS} =±C0V			±10	μA
		V_{DS} =0V, V_{GS} =±10V			±200	nA
		V _{DS} =0V, V _{GS} =±5V			±100	nA
Diode Forward Voltage	V _{SD}	V _{GS} =0V, I _S =300mA			1.5	V
Drain-Source On-Resistance	R _{DS(on)}	V_{GS} =10V, I _D =500mA			2.5	Ω
		V _{GS} =4.5V, I _D =200mA			3.0	
Recovered Charge	Qr	V _{GS} =0V, I _S =300mA,V _R =25V, dl/dt=-100A/µs		30		nC
Input Capacitance	C _{iss}				40	
Output Capacitance	C _{oss}	V_{DS} =10V, V_{GS} =0V, f=1MHz			30	pF
Reverse Transfer Capacitance	C _{rss}				10	
Turn-On Time	t _{d(on)}	V_{DD} =50V,R _L =250Ω,			10	
Turn-Off Time	t _{d(off)}	R _{GS} =50Ω,V _{GS} =10V, R _{GEN} =50Ω			15	ns
Reverse Recovery Time	t _{rr}	V _{GS} =0V, I _S =300mA,V _R =25V, dl/dt=-100A/µs		30		

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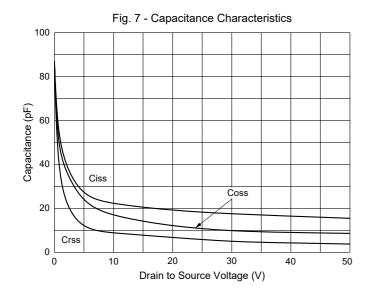


Curve Characteristics





Curve Characteristics





Ordering Information

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

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