

Features

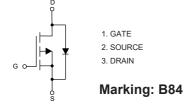
- High Density Cell Design for Ultra Low R_{DS(on)}
- · Rugged and Reliable
- Epoxy Meets UL 94 V-0 Flammability Rating
- · Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

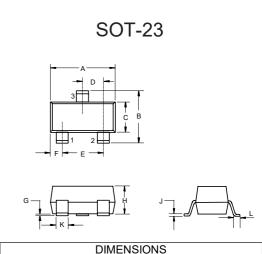
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- · Thermal Resistance: 556°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-50	V
Gate-Source Voltage	V _{GS}	±20	V
Continuous Drain Current	I _D	-0.13	Α
Pulsed Drain Current	I _{DM}	-0.52	Α
Total Power Dissipation	P _D	225	mW

Internal Structure

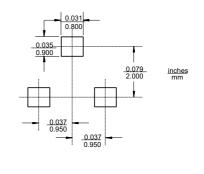


P-CHANNEL MOSFET



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

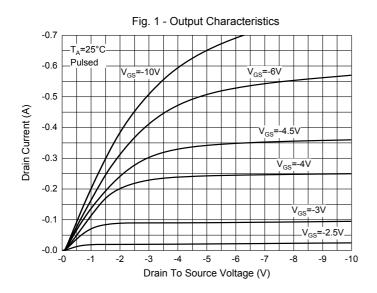
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
Static Characteristics	•			•			
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250μA	-50			V	
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±5	μΑ	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-50V, V _{GS} =0V			-15	μΑ	
		V _{DS} =-25V, V _{GS} =0V			-0.1	μΑ	
Gate-Threshold Voltage ^(Note 1)	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=-250\mu A$	-0.9		-2	V	
Drain-Source On-Resistance ^(Note 1)	R _{DS(on)}	V _{GS} =-5V, I _D =-0.1A			10	Ω	
		V _{GS} =-10V, I _D =-0.1A			8	1 12	
Diode Forward Voltage ^(Note 1)	V _{SD}	V _{GS} =0V, I _S =-0.13A			-2.2	V	
Forward Transconductance ^(Note 1)	9 _{FS}	V _{DS} =-25V, I _D =-100mA	50			mS	
Dynamic Characteristics (Note 2))						
Input Capacitance	C _{iss}			30			
Output Capacitance	C _{oss}	V_{DS} =-25V, V_{GS} =0V,f=1MHz		10		pF	
Reverse Transfer Capacitance	C _{rss}			5			
Switching Characteristics ^{(Note}	2)						
Turn-On Delay Time	t _{d(on)}			2.5			
Turn-On Rise Time	t _r	1		1			
Turn-Off Delay Time	t _{d(off)}	V_{DS} =-15V, R_L =50 Ω , I_D =-2.5A		16		ns	
Turn-Off Fall Time	t _f			8			

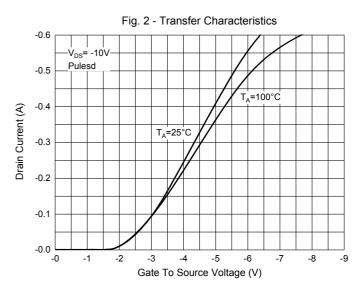
Note: 1. Pulse Test : Pulse Width≤80µs, Duty Cycle≤0.5%.

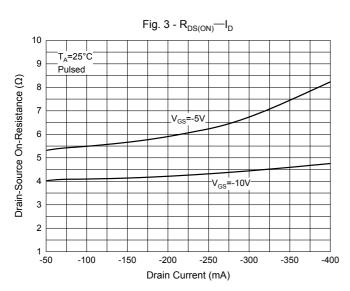
^{2.} Guaranteed by Design, Not Subject to Production Testing.

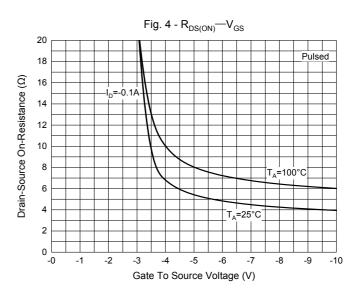


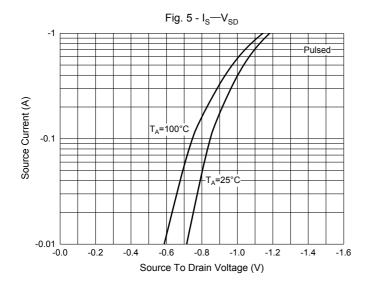
Curve Characteristics

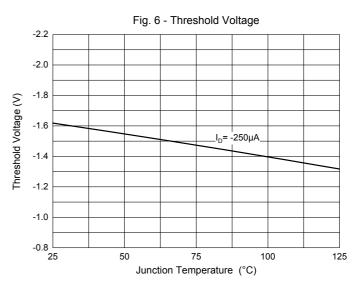














Ordering Information

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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