

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. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

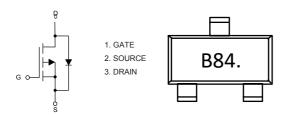
Maximum Ratings

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

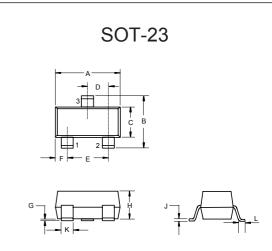
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-60	V
Gate-Source Voltage	V _{GS}	±30	V
Continuous Drain Current	I _D	-0.17	Α
Pulsed Drain Current	I _{DM}	-0.68	Α
Total Power Dissipation	P _D	225	mW

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

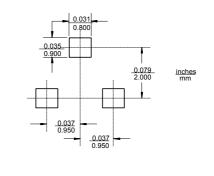


P-CHANNEL MOSFET



DIMENSIONS					
DIM	INCHES		MM		NOTE
	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	
Е	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)

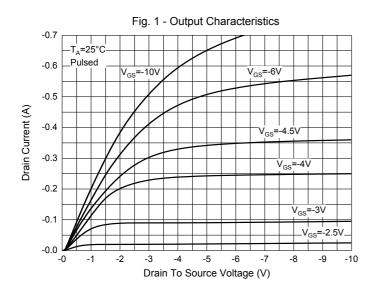
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
Static Characteristics	1			1	1		
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250μA	-60			V	
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±30V			±500	nA	
		V _{DS} =0V, V _{GS} =±20V			±100	nA	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-60V, V _{GS} =0V			-5	μA	
		V _{DS} =-25V, V _{GS} =0V			-0.1	μΑ	
Gate-Threshold Voltage ^(Note 2)	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_D=-250\mu A$	-0.9		-2	V	
Drain-Source On-Resistance ^(Note2)	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 2)	V _{SD}	V _{GS} =0V, I _S =-0.17A			-2.2	V	
Forward Transconductance ^(Note 2)	9 FS	V _{DS} =-25V, I _D =-100mA	50			mS	
Dynamic Characteristics (Note3)							
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	3)						
Turn-On Delay Time	t _{d(on)}			ÌÈ			
Turn-On Rise Time	t _r	XööMËH∈XÊÁXõùMËLĚXÊÁ		Œ			
Turn-Off Delay Time	t _{d(off)}	QMËETĖÍ OEĖÄŪõò⊳MOLĚ Á		FÍ		ns	
Turn-Off Fall Time	t _f			ΪΪ			

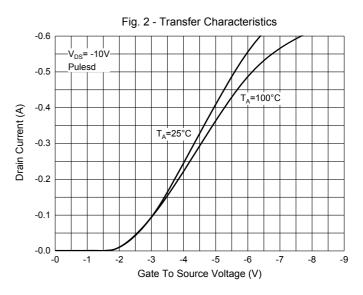
Note: 2. Pulse Test : Pulse Width \leq 80 μ s, Duty Cycle \leq 0.5%.

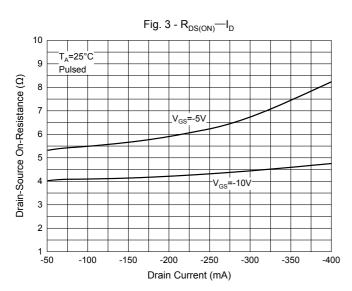
^{3.} Guaranteed by Design, Not Subject to Production Testing.

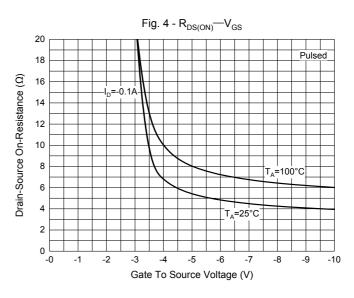


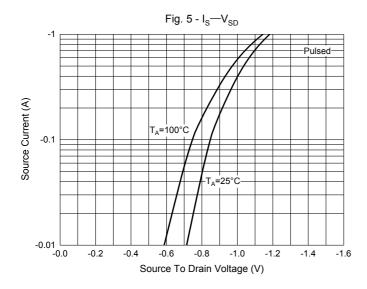
Curve Characteristics

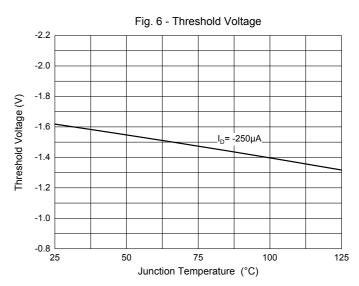














Ordering Information

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

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