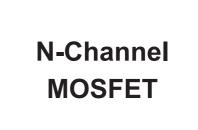


### Features

- Low ON-Resistance
- · Fast Switching Speed
- 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)



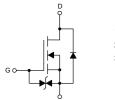
### **Maximum Ratings**

- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 833°C/W Junction to Ambient

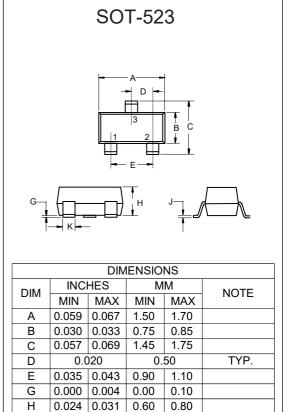
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	$V_{\text{DS}}$	30	V
Gate-Source Voltage	V <sub>GS</sub>	±20	V
Drain Current-Continuous	I <sub>D</sub>	100	mA
Power Dissipation	P <sub>D</sub>	150	mW

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**







#### Suggested Solder Pad Layout

0.10

0.20

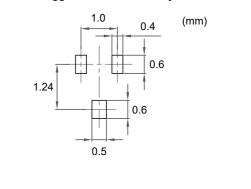
0.35

0.004 0.008

0.006 0.014 0.15

J

Κ



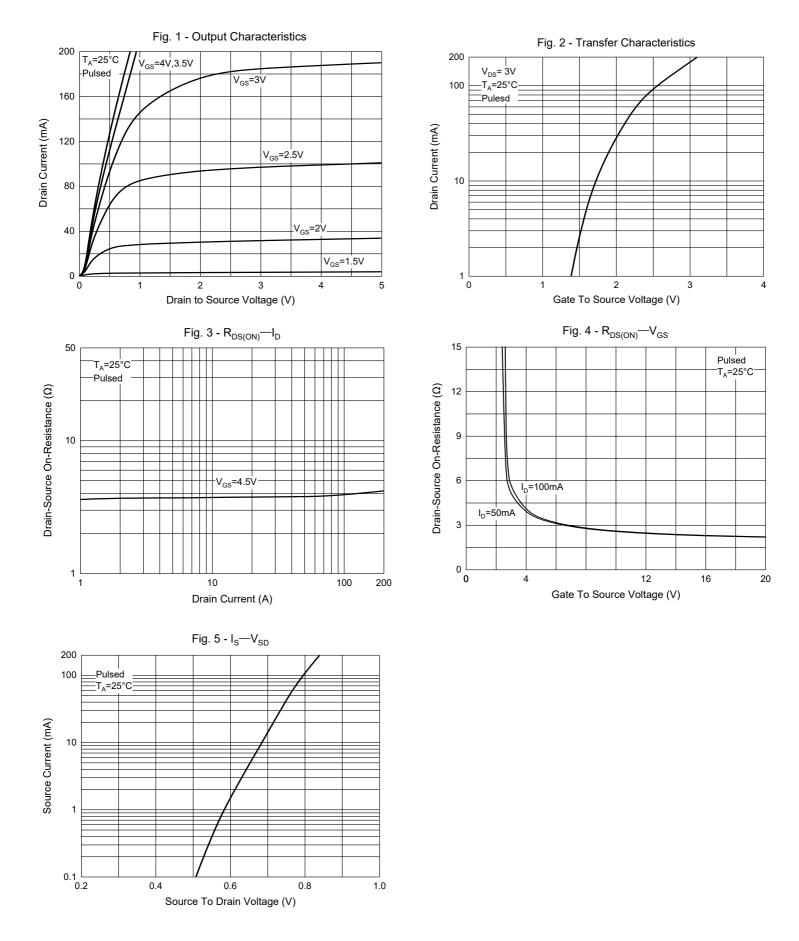


### Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Тур	Мах	Unit		
Static Characteristics								
Drain-Source Breakdown Voltage	V <sub>(BR)DSS</sub>	V <sub>GS</sub> =0V, Ι <sub>D</sub> =10μΑ	30			V		
Gate-Source Leakage Current	I <sub>GSS</sub>	V <sub>DS</sub> =0V, V <sub>GS</sub> =±20V			±2	μA		
Zero Gate Voltage Drain Current	I <sub>DSS</sub>	V <sub>DS</sub> =30V, V <sub>GS</sub> =0V			1	μA		
Gate-Threshold Voltage	V <sub>GS(th)</sub>	V <sub>DS</sub> =3V, I <sub>D</sub> =100µA	0.8	0.95	1.5	V		
Drain-Source On-Resistance	R <sub>DS(on)</sub>	V <sub>GS</sub> =4.5V, I <sub>D</sub> =10mA			8	Ω		
Forward Tranconductance	<b>g</b> fs	V <sub>DS</sub> =3V, I <sub>D</sub> =10mA	20			mS		
Dynamic Characteristics <sup>(Note 2</sup>	2)		·					
Input Capacitance	C <sub>iss</sub>	V <sub>DS</sub> =5V,V <sub>GS</sub> =0V,f=1MHz		13		pF		
Output Capacitance	C <sub>oss</sub>			9				
Reverse Transfer Capacitance	C <sub>rss</sub>			4				
Dynamic Characteristics Cha	racteristic	S <sup>(Note 1)</sup>						
Turn-On Delay Time	t <sub>d(on)</sub>	VGS=5V, V <sub>DD</sub> =400V I <sub>D</sub> =10mA, R <sub>G</sub> =10Ω, RL=500Ω		15				
Turn-On Rise Time	t <sub>r</sub>			35				
Turn-Off Delay Time	t <sub>d(off)</sub>			80		ns		
Turn-Off Fall Time	t <sub>f</sub>			80				

Note 2. These Parameters Have No Way to Verify.

# **Curve Characteristics**







## **Ordering Information**

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

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