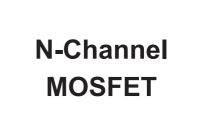


Features

- 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)



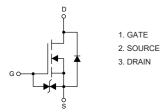
Maximum Ratings

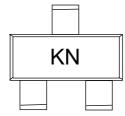
- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 833°C/W Junction to Ambient

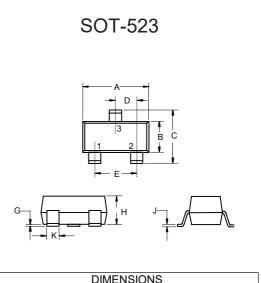
Parameter	Symbol	Rating	Unit	
Drain-Source Voltage	V_{DS}	30	V	
Gate-Source Voltage	V _{GS}	±20	V	
Drain Current-Continuous	I _D	100	mA	
Power Dissipation	P _D	150	mW	

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 and Marking Code

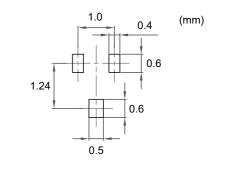






DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIN	MIN	MAX	MIN	MAX	NOTE	
Α	0.059	0.067	1.50	1.70		
В	0.030	0.033	0.75	0.85		
С	0.057	0.069	1.45	1.75		
D	0.020		0.50		TYP.	
E	0.035	0.043	0.90	1.10		
G	0.000	0.004	0.00	0.10		
Н	0.024	0.031	0.60	0.80		
J	0.004	0.008	0.10	0.20		
K	0.006	0.014	0.15	0.35		

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Тур	Мах	Unit	
Static Characteristics							
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =10µA	30			V	
Gate-Source Leakage Current	I _{GSS}	V_{DS} =0V, V_{GS} =±20V			±2	μA	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =30V, V _{GS} =0V, T _j =50°C			100	nA	
Gate-Threshold Voltage	V _{GS(th)}	V _{DS} =3V, I _D =100µA	0.8		1.5	V	
Drain-Source On-Resistance	5	V _{GS} =4V, I _D =10mA			8	Ω	
	R _{DS(on)}	V _{GS} =2.5V, I _D =1mA			13		
Forward Tranconductance	g fs	V _{DS} =3V, I _D =10mA	20			mS	
Dynamic Characteristics ^{(Note 2}	:)						
Input Capacitance	C _{iss}			13		pF	
Output Capacitance	C _{oss}	V _{DS} =5V,V _{GS} =0V,f=1MHz		9			
Reverse Transfer Capacitance	C _{rss}			4			
Dynamic Characteristics Cha	racteristic	S ^(Note 1)					
Turn-On Delay Time	t _{d(on)}			15			
Turn-On Rise Time	t _r	V _{GS} =5V, V _{DD} =5V		35			
Turn-Off Delay Time	t _{d(off)}	I _D =10mA, R _g =10Ω, R _L =500Ω		80		ns	
Turn-Off Fall Time	t _f			80			

Note 2. These Parameters Have No Way to Verify.

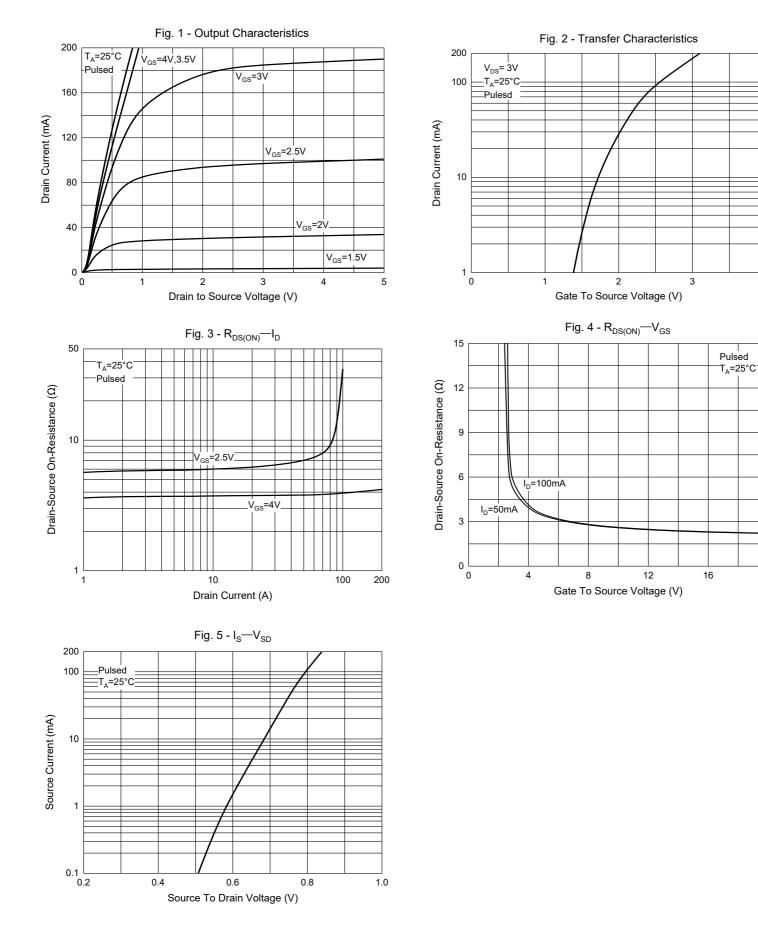


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Curve Characteristics





Ordering Information

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

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