

Features

- Low On-Resistiance
- · Low Input Capaacitance
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF" •

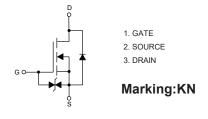
Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

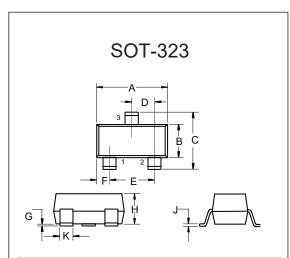
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient

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	0.20	W

Internal Structure

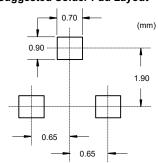


N-Channel MOSFET



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
Е	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
Н	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	

Suggested Solder Pad Layout





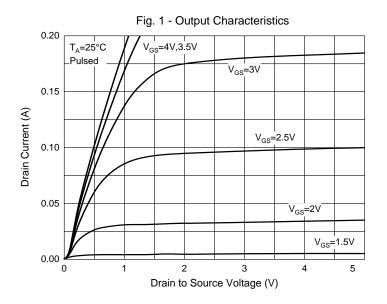
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

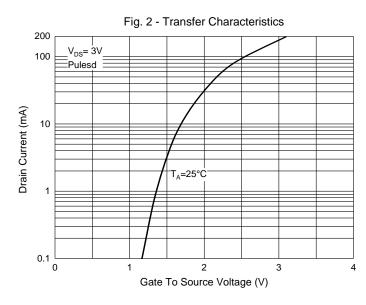
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
Static Characteristics	•		•	•	,		
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =10μA	30			V	
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±500	nA	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =30V, V _{GS} =0V			0.2	μΑ	
Gate-Threshold Voltage	V _{GS(th)}	V _{DS} =3V, I _D =100μA	0.8		1.5	V	
Drain-Source On-Resistance	Б	V _{GS} =4V, I _D =10mA			8		
	R _{DS(on)}	V _{GS} =2.5V, I _D =1mA			13	Ω	
Forward Tranconductance	g _{FS}	V _{DS} =3V, I _D =10mA	20			mS	
Dynamic Characteristics (Note 1)						
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 Charac	teristics ^{(Not}	re 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 =10 Ω , RL=500 Ω		80		ns	
Turn-Off Fall Time	t _f			80			

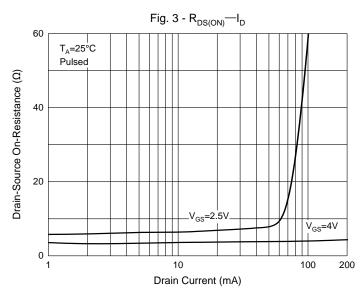
Note 1. These Parameters Have No Way to Verify.

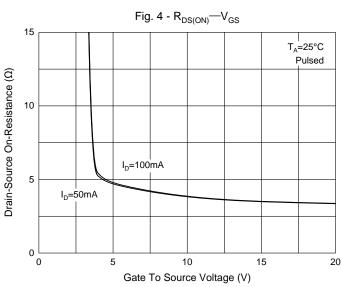


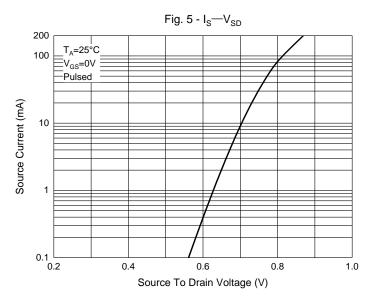
Curve Characteristics













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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