

Features

- Operated at Low Logic Level Gate Drive
- P-Channel Switch with Low R_{DS(on)}
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 3
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

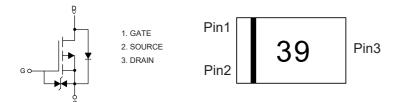
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 138°C/W Junction to Ambient

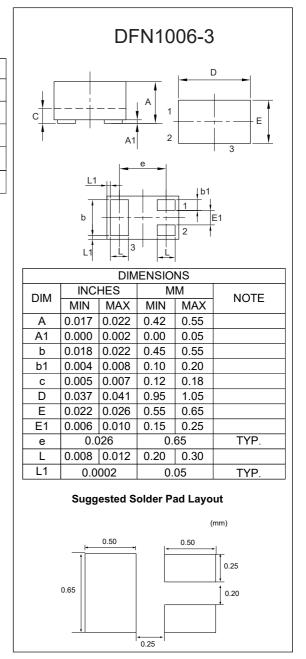
Parameter	Symbol	Rating	Unit	
Drain-Source Voltage	V _{DS}	-20	V	
Gate-Source Voltage	V _{GS}	±12	V	
Drain Current-Continuous ⁽²⁾	Ι _D	-0.65	А	
Pulsed Drain Current	I _{DM}	-2	А	
Power Dissipation ⁽³⁾	P _D	0.9	W	

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









Parameter	Symbol	Test conditions	Min	Тур	Мах	Unit
Static Characteristics	I					1
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250µA	-20			V
Gate-Threshold Voltage ^(Note 2)	V _{GS(th)}	V _{DS} =V _{GS} , I _D =-250µA	-0.35	-0.62	-1.2	V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-20V, V _{GS} =0V			-1.0	μA
Gate-body Leakage Current	I _{GSS}	V _{GS} =± 10V, V _{DS} =0V			±10	μA
Drain-Source On-Resistance ^(Note 2)	R _{DS(on)}	V _{GS} =-4.5V, I _D =-500mA		0.58	0.85	Ω
		V _{GS} =-2.5V, I _D =-300mA		0.86	1.2	
		V _{GS} =-1.8V, I _D =-200mA		1.35	2.0	
Forward transconductance	g _{FS}	V _{DS} =-10V, I _D =-500mA	0.8			S
Diode Forward Voltage ^(Note 2)	V _{SD}	V _{GS} =0V, I _S =-650mA			-1.2	V
Dynamic Characteristics ^(Note 3)						
Input Capacitance	C _{iss}			40		pF
Output Capacitance	C _{oss}	V_{DS} =-16V, V_{GS} =0V, f=1MHz		16		
Reverse Transfer Capacitance	C _{rss}			11		
Total Gate Charge	Qg			860		
Gate-Source Charge	Q _{gs}	V _{GS} =-4.5V,V _{DS} =-10V,I _D =-1A		320		рС
Gate-Drain Charge	Q _{gd}			200		
Switching Characteristics ^{(Note}	3)					
Turn-on Delay Time	t _{d(on)}	V _{DS} =-10V,V _{GS} =-4.5V,I _D =-500mA,		3.8		
Turn-off Delay Time	t _{d(off)}			9.4		ns
Rise Time	t _r	$R_{g}=10\Omega$		19		
Fall Time	t _f			23		

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

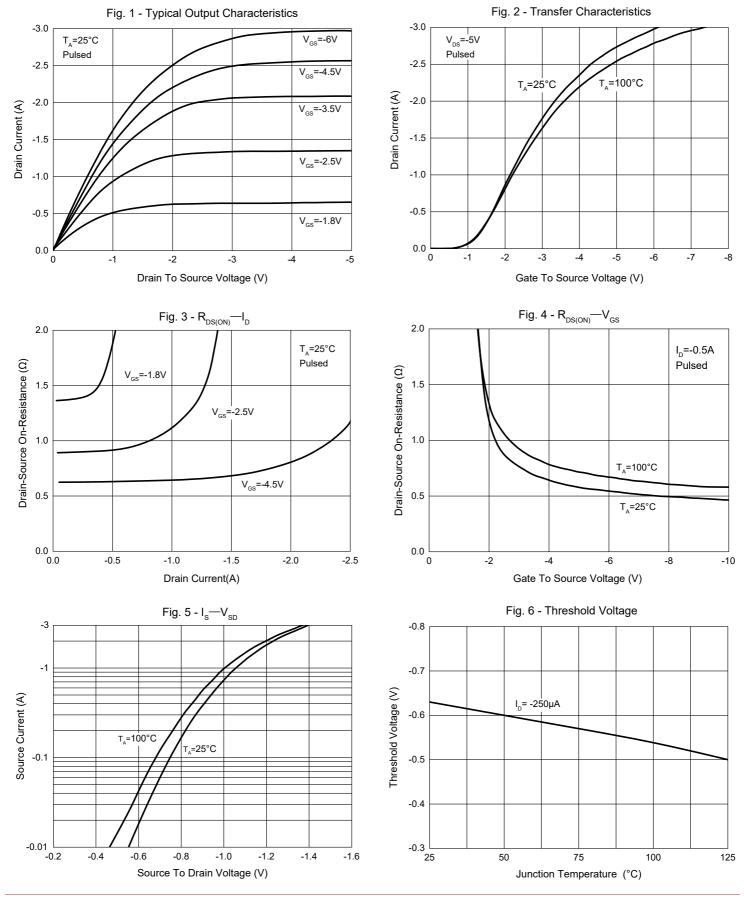
Notes :

2. Pulse Test : Pulse Width≤300µs, Duty Cycle≤0.5%.

3. Guaranteed by Design, Not Subject to Production Testing.

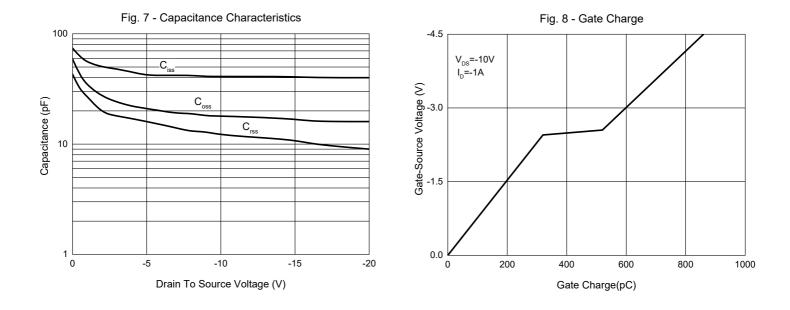


Curve Characteristics





Curve Characteristics





Device	Packing
Part Number-TP	Tape&Reel:10Kpcs/Reel

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