

Features

- Halogen Free. "Green" Device (Note 1)
- · AEC-Q101 Qualified
- High Density Cell Design for Low R_{DS(ON)}
- · Voltage Controlled Small Signal Switch
- · ESD Protected up to 2KV (HBM)
- Epoxy Meets UL 94 V-0 Flammability Rating
- · Moisture Sensitivity Level 1
- · Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

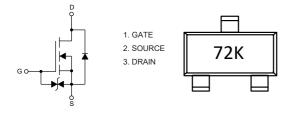
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	60	V
Gate-Source Voltage	V _{GS}	±20	V
Drain Current-Continuous	I _D	0.34	Α
Power Dissipation	P _D	0.35	W

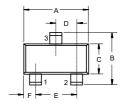
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

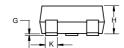
Internal Structure and Marking Code



N-Channel MOSFET



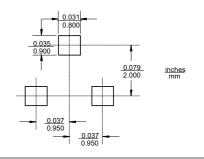






DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOIL	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
E	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.012	0.020	0.30	0.51		
L	0.007	0.020	0.20	0.50		

Suggested Solder Pad Layout



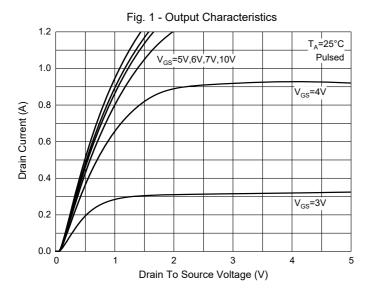


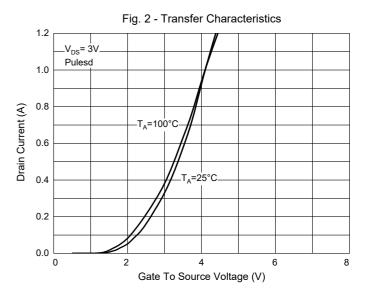
ELECTRICAL CHARACTERISTICS (Ta=25 $^{\circ}$ C unless otherwise specified)

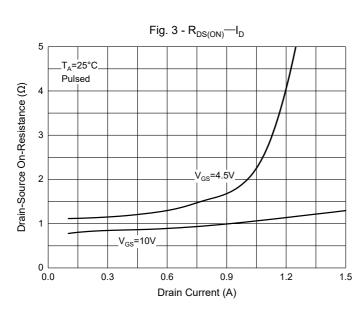
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V_{GS} =0V, I_D =10 μ A	60			V
Gate-Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=1.0$ mA	1.0	1.3	2.5	V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =48V, V _{GS} =0V			1.0	μΑ
Gate-Body Leakage	ı	V _{DS} =0V, V _{GS} =±10V			±200	nA
	I _{GSS}	V_{DS} =0V, V_{GS} =±5V			±100	nA
Diode Forward Voltage	V _{SD}	V _{GS} =0V, I _S =300mA			1.5	V
Drain-Source On-Resistance	Б	V _{GS} =10V, I _D =300mA			2.5 Ω	
	$R_{DS(on)}$	V _{GS} =4.5V, I _D =200mA			3.0	
Recovered Charge	Q _r	V_{GS} =0V, I_{S} =300mA, V_{R} =25V, dl/dt=-100A/ μ s		30		nC
Input Capacitance	C _{iss}				40	
Output Capacitance	C _{oss}	V_{DS} =10V, V_{GS} =0V, f=1MHz			30	pF
Reverse Transfer Capacitance	C _{rss}				10	
Turn-On Time	t _{d(on)}	$V_{DD} = 50V, R_L = 250\Omega,$			10	
Turn-Off Time	t _{d(off)}	R_{GS} =50 Ω , V_{GS} =10 V , R_{GEN} =50 Ω			15	ns
Reverse Recovery Time	t _{rr}	V_{GS} =0V, I_{S} =300mA, V_{R} =25V, dl/dt=-100A/ μ s		30		

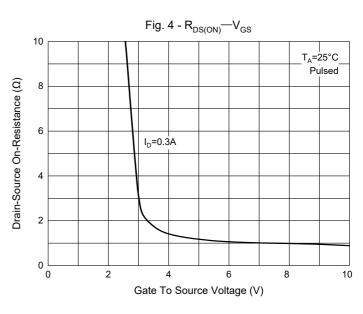


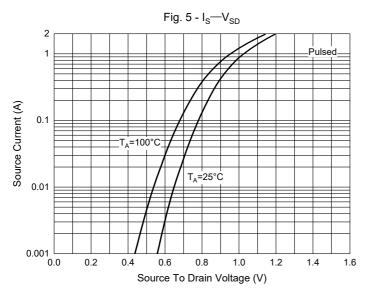
Curve Characteristics

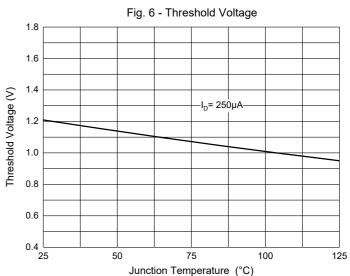






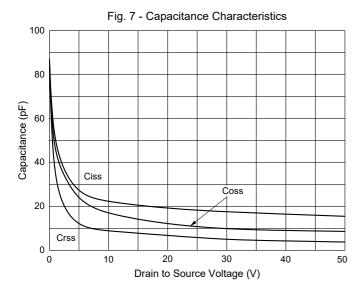








Curve Characteristics





Ordering Information

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

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