



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

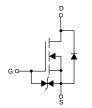
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 833°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Drain -source Voltage	V _{DS}	20	V
Gate -Source Voltage	V _{GS}	±12	V
Drain Current-Continuous	I _D	0.75	А
Pulsed Drain Current ^(Note 2)	I _{DM}	3.0	А
Power Dissipation ^(Note 3)	P _D	0.15	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.

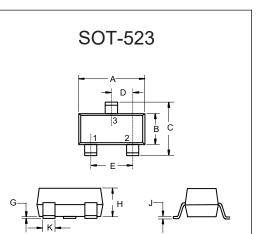
- 2. Repetitive Rating: Pulse width limited by maximum junction temperature.
- 3. This test is performed with no heat sink at Ta=25 $^\circ\!\mathbb{C}.$

Internal Structure



1. GATE	
2. SOURCE	
3. DRAIN	

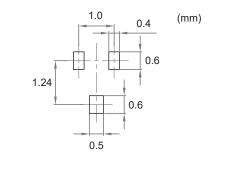
Marking:34K



N-Channel MOSFET

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
A	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 (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Мах	Unit
Static Characteristics	1					
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =250µA	20			V
Gate-Threshold Voltage ^(Note 4)	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=250\mu A$	0.35	0.75	1.1	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			±20	μA
Drain-Source On-Resistance ^(Note 4)	R _{DS(on)}	V _{GS} =4.5V, I _D =650mA		0.19	0.38	Ω
		V _{GS} =2.5V, I _D =550mA		0.26	0.45	
		V _{GS} =1.8V, I _D =450mA		0.39	0.80	
Forward transconductance	g fs	V _{DS} =10V, I _D =800mA	1.0			S
Diode Forward Voltage ^(Note 4)	V_{SD}	V _{GS} =0V, I _S =150mA			1.2	V
Dynamic Characteristics ^(Note 5)	1					
Input Capacitance	C _{iss}				120	pF
Output Capacitance	C _{oss}	V _{DS} =16V,V _{GS} =0V, f=1MHz			20	
Reverse Transfer Capacitance	C _{rss}				15	
Switching Characteristics ^{(Note}	5)		·			
Turn-on Delay Time	t _{d(on)}			6.7		
Turn-off Delay Time	t _{d(off)}	V _{DS} =10V,V _{GS} =4.5V,I _D =500 mA,		17.3		ns
Rise Time	t _r	R_{GEN} =10 Ω		4.8		
Fall Time	t _f			7.4		

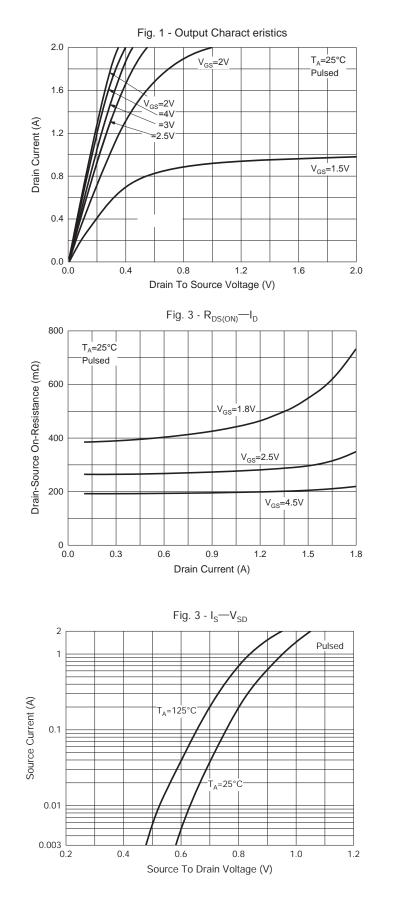
Note:

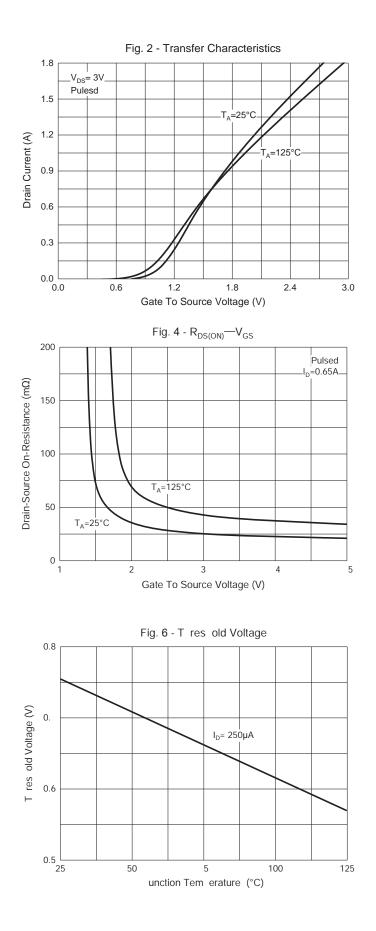
4. Pulse Test : Pulse Width≤300µs, Duty Cycle≤0.5%.

5. These parameters have no way to verify.



Curve Characteristics







Ordering Information

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

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