

Features

- · Low Gate Threshold Voltage
- · Low Input Capacitance
- · Low On-resistance
- · Low Input/Output Leakage
- 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)

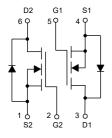
Maximum Ratings

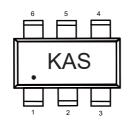
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Thermal Resistance: 833 °C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	60	V
Gate-Source Voltage	V _{GS}	±20	V
Drain Current-Continuous	I _D	0.115	Α
Power Dissipation	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.

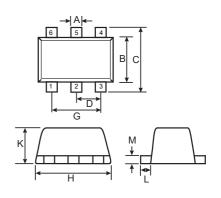
Internal Structure and Marking Code





N-Channel MOSFET

SOT-563



DIMENSIONS						
DIM INCH		HES	MM		NOTE	
Dilvi	MIN	MAX	MIN	MAX	NOIL	
Α	0.006	0.011	0.15	0.30		
В	0.043	0.051	1.10	1.30		
С	0.059	0.067	1.50	1.70		
D	0.020		0.50		TYP.	
G	0.035	0.043	0.90	1.10		
Н	0.059	0.067	1.50	1.70		
K	0.022	0.026	0.55	0.65		
L	0.004	0.011	0.10	0.30		
М	0.004	0.007	0.10	0.18		

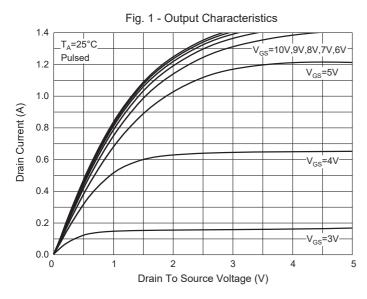


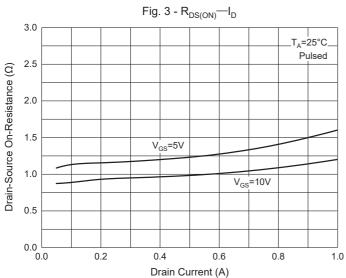
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

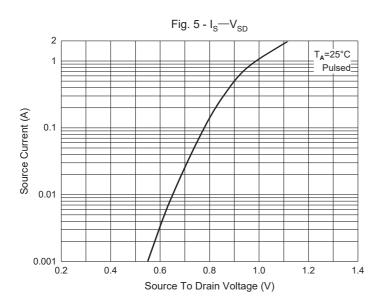
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit	
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =250μA	60			V	
Gate-Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_D=250\mu A$	1.0	1.6	2.5	V	
Gate-Body Leakage	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±10	nA	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =60V, V _{GS} =0V			80	nA	
On-State Drain Current	I _{D(on)}	V _{DS} =7.0V, V _{GS} =10V	500			mA	
Drain-Source On-Resistance	Б	V _{GS} =10V, I _D =500mA		0.9	5.0	Ω	
	R _{DS(on)}	V _{GS} =5V, I _D =50mA		1.1	7.0		
Drain-Source On-Voltage	V _{DS(on)}	V _{GS} =10V, I _D =500mA			3.75	· v	
		V _{GS} =5V, I _D =50mA			0.375	V	
Forward Transconductance	g _{fs}	V _{DS} =10V, I _D =200mA	80			ms	
Diode Forward Voltage	V _{SD}	V _{GS} =0V, I _S =115mA	0.55		1.2	V	
Maximum Continuous Drain-Source Diode Forward Current	I _S				115	mA	
Input Capacitance	C _{iss}				50		
Output Capacitance	C _{oss}	V _{DS} =25V,V _{GS} =0V, f=1MHz			25	pF	
Reverse Transfer Capacitance	C _{rss}				5		
Turn-On Time	t _{d(on)}	V_{DD} =25V, V_{GEN} =10V, R_{L} =50 Ω ,			20	ns	
Turn-Off Time	t _{d(off)}	I_D =500mA, R_{GEN} =25 Ω			40	110	

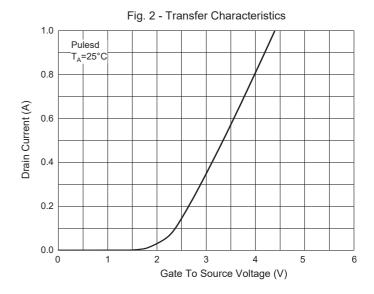


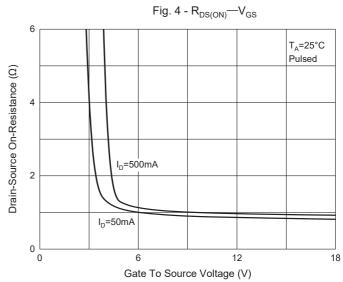
Curve Characteristics













Ordering Information

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp. and all the companies whose products are represented on our website, harmless against all damages. Micro Commercial Components Corp. products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

单击下面可查看定价,库存,交付和生命周期等信息

>>MCC(美微科)