

Features

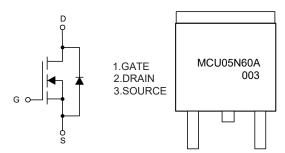
- High Current Rating
- Lower R_{DS(ON)}
- Lower Capacitance
- Lower Total Gate Charge
- Tighter V_{SD} Specifications
- Avalanche Energy Specified
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

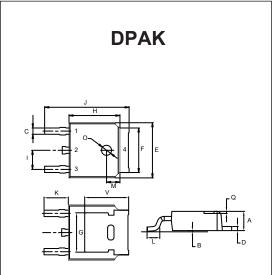
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 100°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Drain -Source Voltage	V _{DS}	600	V
Gate -Source Volltage	V _{GS}	±30	V
Drain Current-Continuous	I _D	4.5	А
Power Dissipation@T _C =25°C ^(Note 2)	Pn	1.25	W
Maximum Power Dissipation@T _C =25°C ^(Note 3)		120	W
Single Pulsed Avalanche Energy ^(Note1)	E _{AS}	210	mJ

=bhYfbU`GhfiWhifY`UbX`AUf_]b[`7cXY







DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
Е	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.83		TYP.
Н	0.236	0.244	6.00	6.20	
Ι	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
Κ	0.114		2.90		TYP.
L	0.055	0.067	1.40	1.70	
Μ	0.063		1.60		TYP.
0	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.211		5.35		TYP.



ELECTRICAL CHARACTERISTICS (Ta=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 =250 μ A	600			V
Gate-Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=250\mu A$	2.0		4.0	V
Gate-Body Leakage Current ^(Note4)	I _{GSS}	V_{GS} =± 30V, V_{DS} =0V			±100	nA
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =600V, V _{GS} =0V			1	μA
Drain-Source On-Resistance	R _{DS(on)}	V _{GS} =10V, I _D =2.25A			2.5	Ω
Drain- Source Diode Forward Voltage ^(Note4)	V _{SD}	V _{GS} =0V, I _S =4.5A			1.4	V
Forward Transconductance(Note4)	g _{fs}	V _{DS} =40V, I _D =2.25A	2.9			S
Dynamic Characteristics						
Input Capacitance ^(Note4)	C _{iss}				670	
Output Capacitance ^(Note4)	C _{oss}	V_{DS} =25V, V_{GS} =0V, f=1MHz			72	pF
Reverse Transfer Capacitance ^(Note4)	C _{rss}				8.5	
Switching Characteristics				1		
Turn-on Delay Time ^(Note4)	t _{d(on)}				30	
Turn-on Rise Time ^(Note4)	t _r	V _{DD} =300V,R _G =25Ω, I _D =4.5A			90	
Turn-off Delay Time ^(Note4)	t _{d(off)}				85	ns
Turn-off Fall Time ^(Note4)	t _f				100	

Note: 1. EAS Condition: L=20mH, I_{AS} =4.5A, V_{DD} =50V, R_{G} =25 Ω , T_{J} =25 $^{\circ}$ C

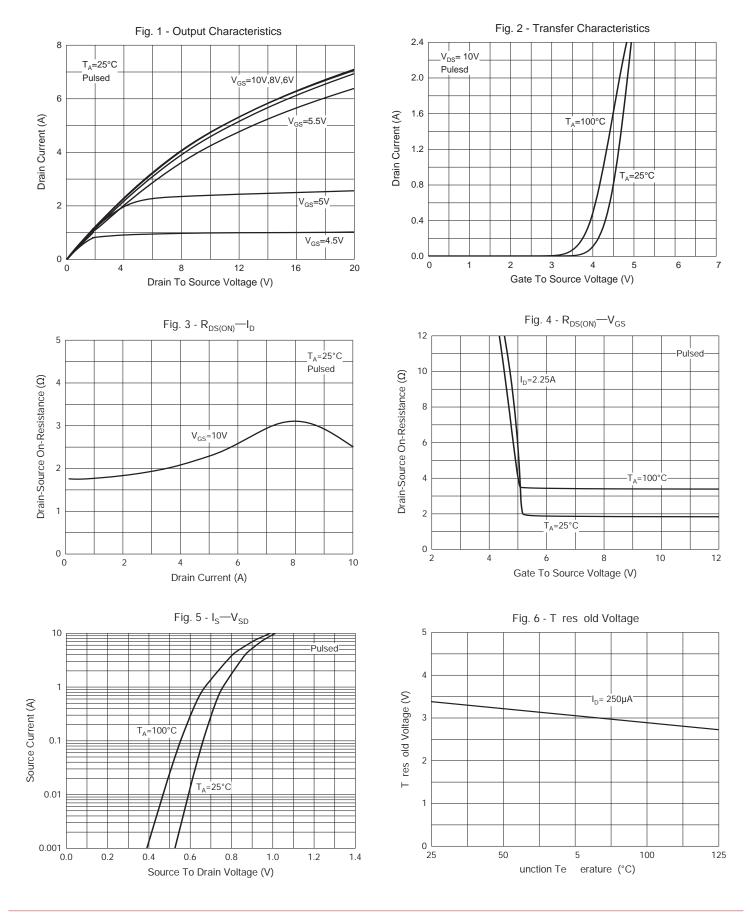
2. This Test is Performed With No Heat Sink at T_A =25°C

3. This Test is Performed With Infinite Heat Sink at $T_{C}\mbox{=}25^{\circ}\mbox{C}$

4. Pulse Test: Pulse Width \leq 300µs, Duty Cycle \leq 2%.



Curve Characteristics





Ordering Information

Device		Packing	
Part Number-TP		Tape&Reel:2.5Kpcs/Reel	

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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)