

Features

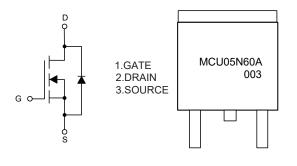
- · High Current Rating
- Lower R_{DS(ON)}
- Lower Capacitance
- Lower Total Gate Charge
- Tighter V_{SD} Specifications
- Avalanche Energy Specified
- Epoxy Meets UL 94 V-0 Flammability Rating
- · Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS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

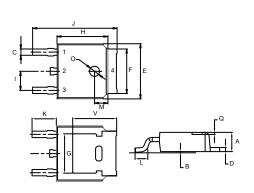
Parameter	Symbol	Rating	Unit
Drain -Source Voltage	V_{DS}	600	V
Gate -Source Volltage	V _{GS}	±30	V
Drain Current-Continuous	I _D	4.5	А
Power Dissipation@T _C =25°C ^(Note 2)	P _D	1.25	W
Maximum Power Dissipation@T _C =25°C ^(Note 3)	I D	120	W
Single Pulsed Avalanche Energy ^(Note1)	E _{AS}	210	mJ

=bhYfbU`Ghfi WhifY`UbX`AUf_]b[`7cXY



N-CHANNEL MOSFET

DPAK



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
Dilvi	MIN	MAX	MIN	MAX	NOTE	
Α	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	0.1	90	4.83		TYP.	
Н	0.236	0.244	6.00	6.20		
I	0.086	0.094	2.18	2.39		
J	0.386	0.409	9.80	10.40		
K	0.1	0.114		90	TYP.	
L	0.055	0.067	1.40	1.70		
М	0.0	0.063		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℃ unless otherwise specified)

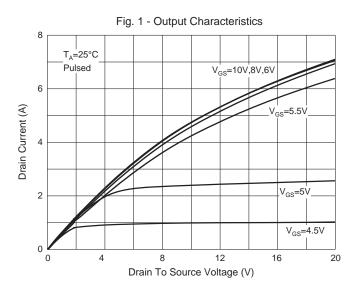
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Static Characteristics	1					
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =250μA	600			V
Gate-Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_D=250\mu A$	2.0		4.0	V
Gate-Body Leakage Current(Note4)	I _{GSS}	V _{GS} =± 30V, V _{DS} =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	٧
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	рF
Reverse Transfer Capacitance (Note4)	C _{rss}				8.5	
Total Gate Charge	Qg			11.8	16.5	
Gate-Source Charge	Q _{gs}	V_{DS} =300V, V_{GS} =10V, I_{D} =4.5A		2.36	3.3	nC
Gate-Drain Charge	Q_{gd}			3.98	5.57	
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)}	V _{DD} -300V,R _G -2312, I _D -4.3A			85	ns
Turn-off Fall Time ^(Note4)	t _f				100	

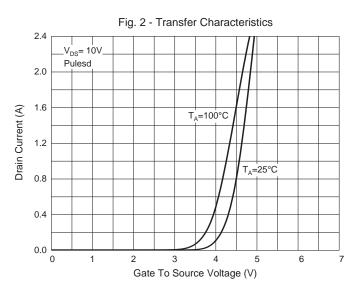
Note: 1. EAS Condition: L=20mH, I_{AS} =4.5A, V_{DD} =50V, R_{G} =25 Ω , T_{J} =25 $^{\circ}$ C

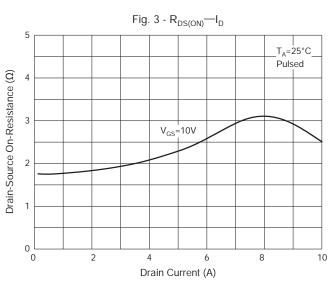
- 2. This Test is Performed With No Heat Sink at T_A =25°C
- 3. This Test is Performed With Infinite Heat Sink at T_C =25°C
- 4. Pulse Test: Pulse Width ≤300μs, Duty Cycle ≤2%.

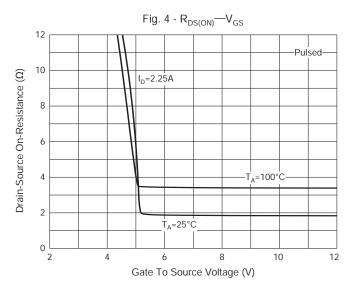


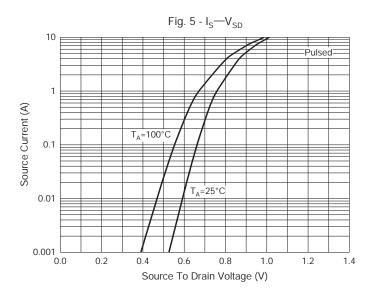
Curve Characteristics

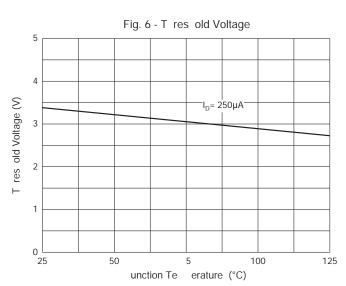














Ordering Information

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

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

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