

Features

- Trench Power MV MOSFET Technology
- Excellent Package for Heat Dissipation
- High Density Cell Design for Low R_{DS(on)}
- 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

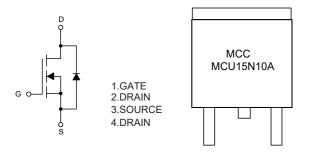
- Operating Junction Temperature Range : -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Thermal Resistance: 4.4°C/W Junction to Case

Parameter	Symbol	Rating	Unit	
Drain-Source Voltage		V _{DS}	100	V
Gate-Source Volltage		V _{GS}	±20	V
Continuous Drain Current	T _C =25°C	- I _D	15	Α
	T _C =100°C	- 'D	10.5	Α
Pulsed Drain Current	I _{DM}	60	Α	
Single Pulse Avalanche Energy ^(Note 1)		E _{AS}	9	mJ
Total Power Dissipation		P _D	34	W

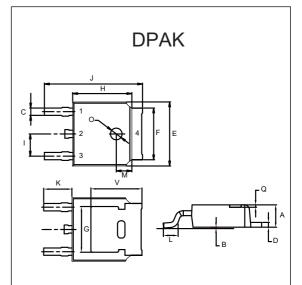
Note:

1.EAS Condition: $T_J=25^{\circ}C, V_{DD}=50V, V_G=10V, R_a=25\Omega$.

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



N-CHANNEL MOSFET



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	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	0.190		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	0.114		2.90		TYP.
L	0.055	0.067	1.40	1.70	
М	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 @ 25°C (Unless Otherwise Specified)

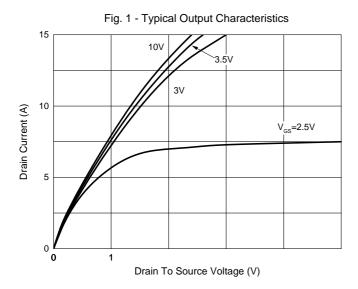
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Static Characteristics	1			•	•	1
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =250μA	100			V
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±100	nA
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =100V, V _{GS} =0V			1	μA
Gate-Threshold Voltage ^(Note 2)	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_D=250\mu A$	1.1	1.8	3	V
Drain-Source On-Resistance ^(Note 2)	Ь	V _{GS} =10V, I _D =8A		95	110	mΩ
	$R_{DS(on)}$	V _{GS} =4.5V, I _D =8A		100	120	
Diode Forward Voltage	V _{SD}	V _{GS} =0V, I _S =15A		0.8	1.2	V
Continuous Body Diode Current	I _S				15	Α
Dynamic Characteristics(Note 3)					
Input Capacitance	C _{iss}			800		pF
Output Capacitance	C _{oss}	V_{DS} =50V, V_{GS} =0V,f=1MHz		39		
Reverse Transfer Capacitance	C _{rss}			32		
Total Gate Charge	Qg			16		
Gate-Source Charge	Q_{gs}	V_{DS} =50V, V_{GS} =10V, I_{D} =10A		2.5		nC
Gate-Drain Charge	Q_{gd}			2.6		
Turn-On Delay Time	t _{d(on)}			5		
Turn-On Rise Time	t _r	V_{GS} =10V, V_{DD} =50V, R_{L} =6.4 Ω		40		
Turn-Off Delay Time	t _{d(off)}	R_{GEN} =3 Ω		20		- ns
Turn-Off Fall Time	t _f			7		

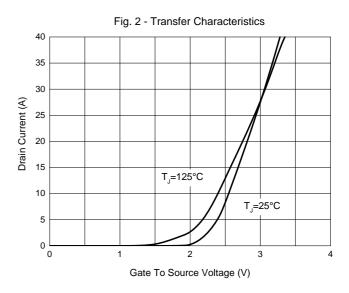
Note 2. Pulse Test : Pulse Width≤300µs, Duty Cycle ≤2%.

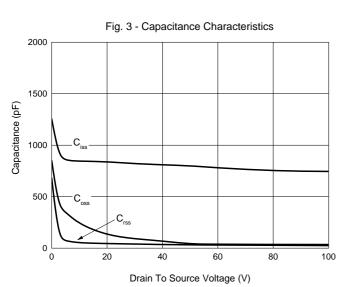
^{3.} Guaranteed by Design, Not Subject to Production Testing.

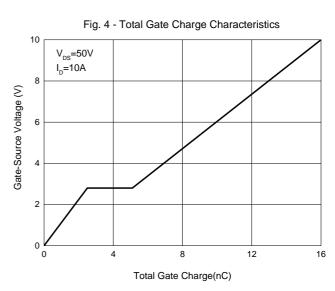


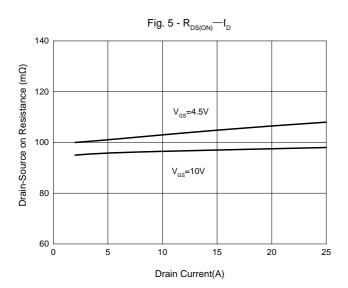
Curve Characteristics

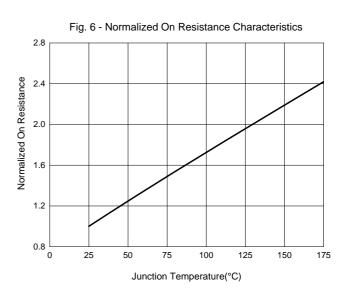














Ordering Information

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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