

Low Voltage/Medium Voltage/Power MOSFET

PANJIT offers wide range of MOSFET in various circuit configurations and package, featuring high speed, high performance, low resistance, and small packaging, which enables designer to select a optimized device for terminal application.

MOSFETs is an important device utilized in varies field and applications, i.e. notebook, tablet, monitor, motherboard, handsets etc..

Each of application in MOSFETs has different characteristics in order to satisfy the circuit design. Furthermore, PANJIT has also categorized the MOSFET into 3, Low Voltage MOSFET, Medium Voltage MOSFET and Power MOSFET respectively, which provide a wide range of package and a variety of advance structure to meet the market demand. In order to decrease the $R_{DS(ON)}$ and gate charge, PANJIT is devoted to not only an advanced high density cell design, but also the trench structure on the devices. Therefore, when applying the devices on a synchronous-rectification DC/DC converter, the losses on power dissipation and switching are lower than usual.



Feature

- High speed switching
- Low $R_{DS(ON)}$
- Small package size
- Advanced Trench Technology

Application

- PC & Tablet
- Motherboard
- Monitor
- Communication
- Lighting

Low Voltage MOSFET

Part No.	Package	Configuration	V _{DS}	V _{GS}	I _D	V _{TH(max)}	R _{DS(ON)}
			(V)	(V)	(A)	(V)	(mΩ)
PJA34xx Series PJS64xx Series PJS68xx Series	SOT-23 SOT-23 6L	Single Complementary Dual	20~40	8~20	0.8~7.4	0.9~2.5	21~
			-20~-40	8~20	-0.5~6.5	-0.9~-2.5	34~
PJC74xx Series PJS76xx Series PJC78xx Series	SOT-323 SOT-363	Single Complementary Dual	20~30	8~20	0.7~1.9	0.9~1.2	68~
			-20~-30	8~12	-0.5~1.5	-1.0~-1.3	93~
PJE84xx Series PJX86xx Series PJX88xx Series	SOT-523 SOT-563	Single Complementary Dual	20~30	8~12	0.4~1.1	0.9~1.3	88~
			-20~-30	8~12	-0.4~-0.9	-1.0~-1.3	130~
PJV17xx Series	SOT-723	Single	20/-20	12	0.7/-0.5	1	380~
PJQ19xx Series	DFN3L	Single	20/-20	10	1.2/-0.8	0.9	400~

Medium Voltage MOSFET

Part No.	Package	Configuration	V _{DS}	V _{GS}	I _D	V _{TH(max)}	R _{DS(ON)}
			(V)	(V)	(A)	(V)	(mΩ)
PJDxxNxx Series	TO-252AA	Single	60~100	20	6~100	2.5/4	7~
			-60~-100	20	-5~-16	-2.5/-4	48~
PJQ54xx Series	DFN5060-8L	Single	60~100	20	13~60	2.5/4	10~
			-60V	20	-11.5~16	-2.5/-4	48~
PJL94xx Series	SOP-8	Single	60~100	20	2.7~12	2.5/4	10~
			-60V	20	-3.2~5.5	-2.5/-4	48~
PJWxxNxx Series	SOT-223	Single	60~100	20	2.2~5	2.5/4	100~
			-60~-100	20	-1.5~-4	-2.5/-4	110~

Power MOSFET

V _{DS}	V _{GS}	I _D	R _{DS(ON)}	Package
(V)	(V)	(A)	(mΩ)	
400	30±	6	0.95	TO Series, IPAK, DPAK
500		1~20	0.3~9	TO Series, IPAK, DPAK, SOT-223, TO-92
600		1~12	0.7~14	TO Series, IPAK, DPAK, SOT-223, TO-92
650		3~10	0.9~3.75	TO Series, IPAK, DPAK
700		2~6	1.7~6.5	TO Series, IPAK, DPAK
800		1~10	1.15~16	TO Series, IPAK, DPAK
900		2~9	1.4~6.4	TO Series, IPAK, DPAK

- All data are subject to change.
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