



FETek Technology Corp.

FKD6107

P-Ch 60V Fast Switching MOSFETs

- ★ 100% EAS Guaranteed
- ★ Green Device Available
- ★ Super Low Gate Charge
- ★ Excellent CdV/dt effect decline
- ★ Advanced high cell density Trench technology

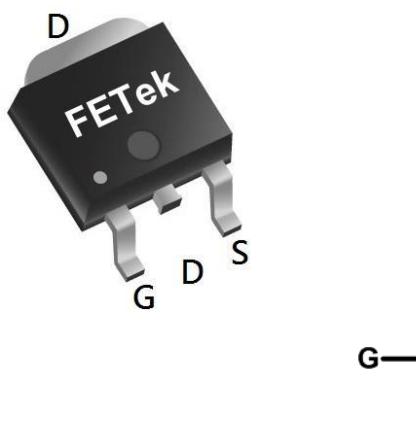
Product Summary

BVDSS	RDS(ON)	ID
-60V	180mΩ	-8A

Description

The FKD6107 is the high cell density trenched P-ch MOSFETs, which provide excellent RDS(ON) and gate charge for most of the synchronous buck converter applications.

The FKD6107 meet the RoHS and Green Product requirement, 100% EAS guaranteed with full function reliability approved.

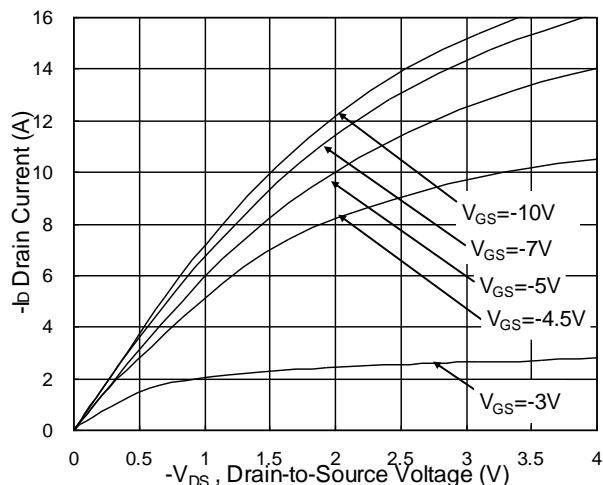
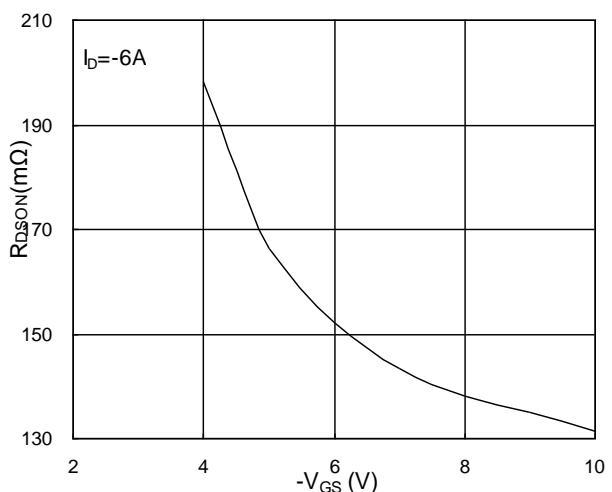
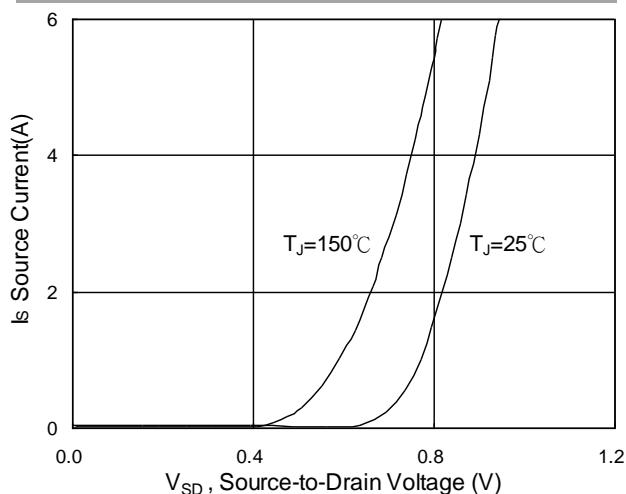
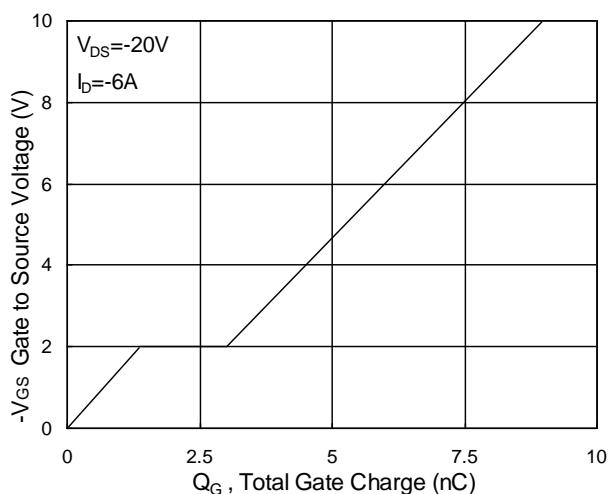
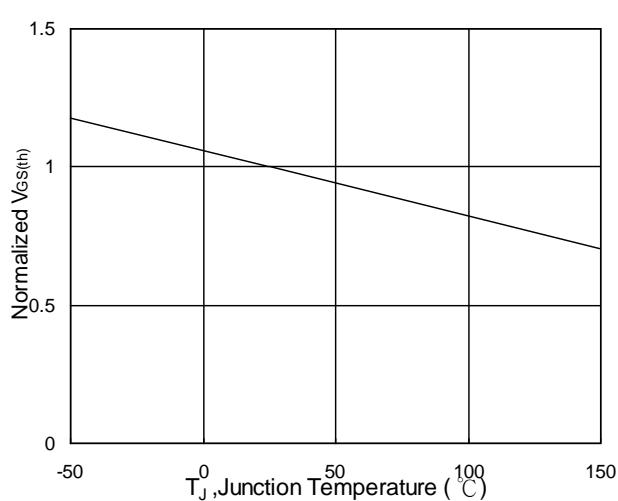
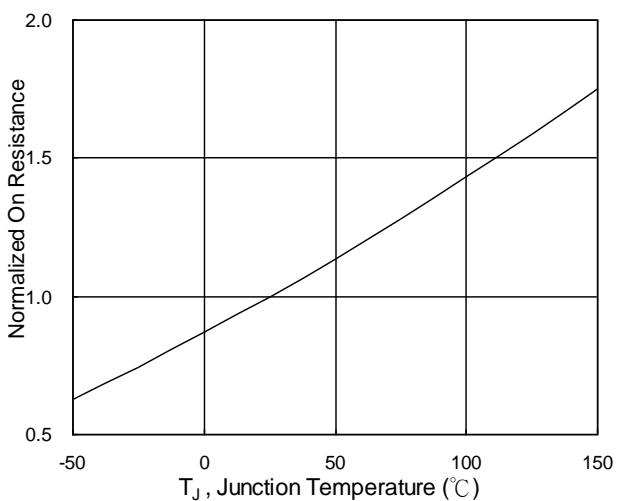
TO252 Pin Configuration**Absolute Maximum Ratings**

Symbol	Parameter	Rating	Units
V _{DS}	Drain-Source Voltage	-60	V
V _{GS}	Gate-Source Voltage	±20	V
I _D @T _C =25°C	Continuous Drain Current, V _{GS} @ -10V ¹	-8	A
I _D @T _C =100°C	Continuous Drain Current, V _{GS} @ -10V ¹	-5.1	A
I _D @T _A =25°C	Continuous Drain Current, V _{GS} @ -10V ¹	-2.5	A
I _D @T _A =70°C	Continuous Drain Current, V _{GS} @ -10V ¹	-2	A
I _{DM}	Pulsed Drain Current ²	-16	A
EAS	Single Pulse Avalanche Energy ³	11.7	mJ
I _{AS}	Avalanche Current	-15.3	A
P _D @T _C =25°C	Total Power Dissipation ⁴	20.8	W
P _D @T _A =25°C	Total Power Dissipation ⁴	2	W
T _{STG}	Storage Temperature Range	-55 to 150	°C
T _J	Operating Junction Temperature Range	-55 to 150	°C

Thermal Data

Symbol	Parameter	Typ.	Max.	Unit
R _{θJA}	Thermal Resistance Junction-Ambient ¹	---	62	°C/W
R _{θJC}	Thermal Resistance Junction-Case ¹	---	6	°C/W

Typical Characteristics


Fig.1 Typical Output Characteristics

Fig.2 On-Resistance v.s Gate-Source

Fig.3 Forward Characteristics Of Reverse

Fig.4 Gate-Charge Characteristics

Fig.5 Normalized $V_{GS(th)}$ v.s T_J

Fig.6 Normalized $R_{DS(on)}$ v.s T_J

