

# SK3415K

### **P-Channel Enhancement Mode MOSFET**

#### Feature

• -20V/-4.0A,  $R_{DS(ON)} = 60m\Omega(MAX)$  @VGS = -4.5V.

 $R_{DS(ON)} = 70 m\Omega(MAX) @V_{GS} = -2.5V.$ 

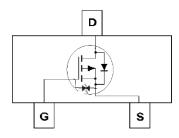
- Super High dense cell design for extremely low RDS(ON)
- Reliable and Rugged
- ESD Protected
- SC-59 for Surface Mount Package

#### Applications

- Power Management
- Portable Equipment and Battery Powered Systems.



SC-59



#### Absolute Maximum Ratings TA=25°CUnless Otherwise noted

Parameter	Symbol	Limit	Units
Drain-Source Voltage	Vds	-20	V
Gate-Source Voltage	V <sub>GS</sub>	±10	V
Drain Current-Continuous	ID	-4.0	А

#### Electrical Characteristics TA=25°CUnless Otherwise noted

Parameter	Symbol	Test Conditions	Min	Тур.	Max	Units
Off Characteristics						
Drain to Source Breakdown Voltage	BVDSS	VGS=0V, ID=-250µA	-20	-	-	V
Zero-Gate Voltage Drain Current	IDSS	VDS=-20V, VGS=0V	-	-	-1	μΑ
Gate Body Leakage Current, Forward	IGSSF	VGS=10V, VDS=0V	-	-	10	μΑ
Gate Body Leakage Current, Reverse	IGSSR	VGS=-10V, VDS=0V	-	-	-10	μΑ
On Characteristics						
Gate Threshold Voltage	VGS(th)	VGS= VDS, ID=-250µA	-0.4	-	-1.0	V
Static Drain-source On-Resistance R	RDS(ON)	VGS =-4.5V, ID =-4.0A	-	35	60	mΩ
		VGS =-2.5V, ID =-4.0A	-	45	70	mΩ
Drain-Source Diode Characterist	ics and Maximu	m Ratings	-			
Drain-Source Diode Forward Voltage	VSD	VGS =0V, IS=-1.0A			-1.2	V

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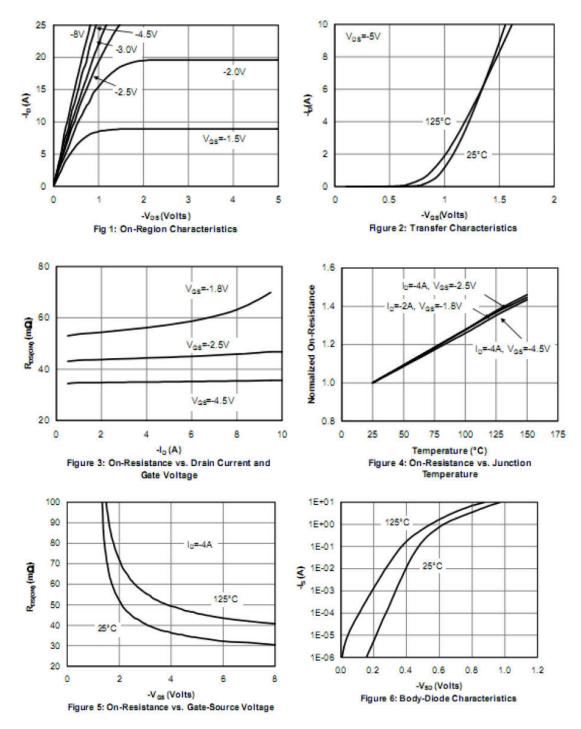
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## **Typical Characteristics**

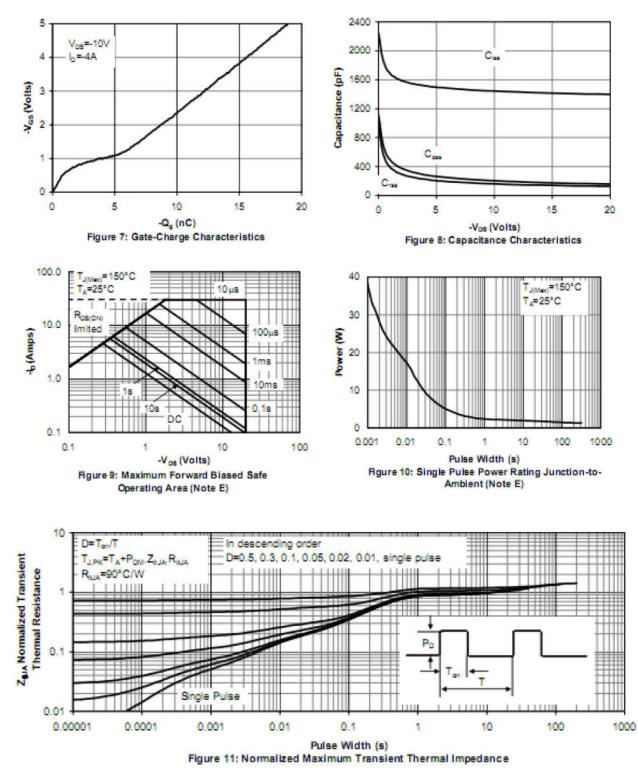


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