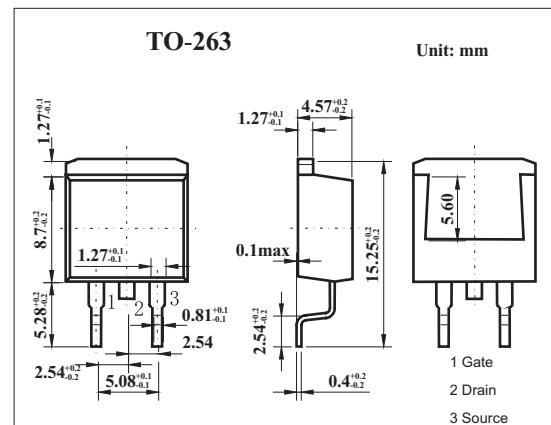


N-Channel Enhancement Mode MOSFET

2SK3269

■ Features

- 4.5 V drive available
- Low on-state resistance
 $R_{DS(on)} = 12 \text{ m}\Omega \text{ MAX. } (V_{GS} = 10 \text{ V}, I_D = 18 \text{ A})$
- Low gate charge
 $Q_G = 30 \text{ nC TYP. } (I_D = 35 \text{ A}, V_{DD} = 16 \text{ V}, V_{GS} = 10 \text{ V})$
- Built-in gate protection diode
- Surface mount device available



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Drain to source voltage	V _{DSS}	100	V
Gate to source voltage	V _{GSS}	±20	V
Drain current	I _D	±35	A
	I _{Dp} *	±140	A
Power dissipation T _a =25 °C T _c =25°C	P _D	1.5	W
		40	
Channel temperature	T _{ch}	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

* PW≤10 μ s,Duty Cycle≤1%

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Drain source surrender voltage	V _{DSS}	I _D =1mA,V _{GS} =0	100			V
Drain cut-off current	I _{DSS}	V _{DS} =20V,V _{GS} =0			10	μA
Gate leakage current	I _{GSS}	V _{GS} =±20V,V _{DS} =0			±10	μA
Gat cutoff voltage	V _{GS(off)}	V _{DS} =10V,I _D =1mA	1.0		2.5	V
Forward transfer admittance	Y _{fs}	V _{DS} =10V,I _D =12A	9.0			S
Drain to source on-state resistance	R _{DS(on)}	V _{GS} =10V,I _D =18A		8.5	12	mΩ
		V _{GS} =4.5V,I _D =18A		12	19	mΩ
Input capacitance	C _{iss}	V _{DS} =10V,V _{GS} =0,f=1MHZ		1300		pF
Output capacitance	C _{oss}			570		pF
Reverse transfer capacitance	C _{rss}			300		pF
Turn-on delay time	t _{on}	I _D =18A,V _{GS(on)} =10V,R _G =10Ω ,V _{DD} =10V		70		ns
Rise time	t _r			1220		ns
Turn-off delay time	t _{off}			100		ns
Fall time	t _f			180		ns