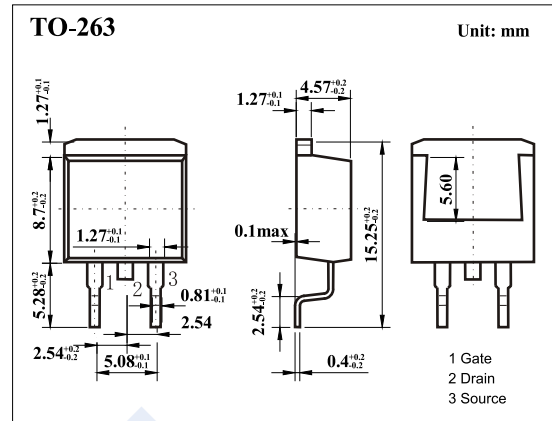
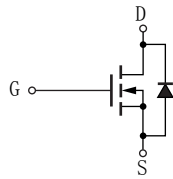


N-Channel MOSFET

2SK3269-ZJ

■ Features

- V_{DS} (V) = 100V
- I_D = 25 A (V_{GS} = 10V)
- $R_{DS(on)}$ < 100m Ω (V_{GS} = 10V)
- Low on-resistance, Low Q_g
- High avalanche resistance



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit	
Drain-Source Voltage	V_{DS}	100	V	
Gate-Source Voltage	V_{GS}	± 20		
Continuous Drain Current	I_D	25	A	
Pulsed Drain Current	I_{DM}	100		
Power Dissipation	P_D	$T_c = 25^\circ\text{C}$	40	W
		$T_a = 25^\circ\text{C}$	1.4	
Single Avalanche Energy (Note.1)	E_{AS}	22.5	mJ	
Thermal Resistance.Junction- to-Ambient	R_{thJA}	89.3	$^\circ\text{C}/\text{W}$	
Thermal Resistance.Junction- to-Case	R_{thJC}	3.125		
Junction Temperature	T_J	150	$^\circ\text{C}$	
Storage Temperature Range	T_{stg}	-55 to 150		

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V_{DSS}	$I_D=1\text{mA}, V_{GS}=0\text{V}$	100			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=80\text{V}, V_{GS}=0\text{V}$			10	μA
Gate-Body Leakage Current	I_{GSS}	$V_{DS}=0\text{V}, V_{GS}=\pm 20\text{V}$			± 1	μA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=10\text{V}, I_D=1\text{mA}$	2		4	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10\text{V}, I_D=12\text{A}$			100	m Ω
Forward Transconductance	g_{FS}	$V_{GS}=10\text{V}, I_D=12\text{A}$	6	11		S
Input Capacitance	C_{iss}	$V_{GS}=0\text{V}, V_{DS}=10\text{V}, f=1\text{MHz}$		960		pF
Output Capacitance	C_{oss}				285	
Reverse Transfer Capacitance	C_{rss}				85	
Turn-On DelayTime	$t_{d(on)}$				15	
Turn-On Rise Time	t_r	$V_{GS}=10\text{V}, V_{DS}=30\text{V}, I_D=12\text{A}, R_G=2.5\Omega$		10		ns
Turn-Off DelayTime	$t_{d(off)}$				65	
Turn-Off Fall Time	t_f				35	
Diode Forward Voltage	V_{SD}		$I_S=15\text{A}, V_{GS}=0\text{V}$			

N-Channel MOSFET 2SK3269-ZJ

■ Typical Characteristics

