

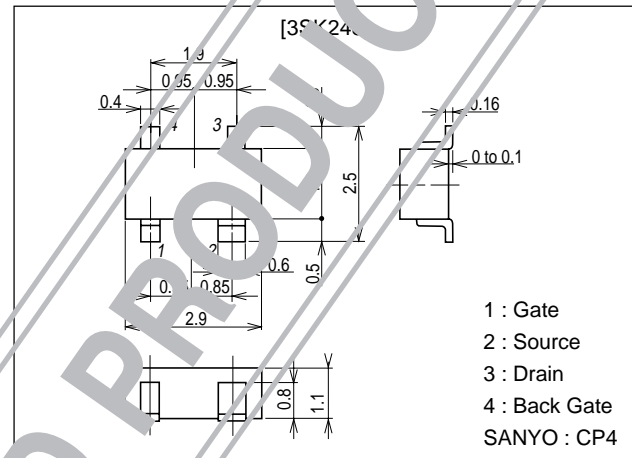
**3SK248****Muting/Switching Applications****Features**

- MOSFET with a back gate terminal.
- Enhancement type.
- Small ON resistance.
- Small-sized package permitting 3SK248-applied sets to be made smaller and slimmer.

Package Dimensions

unit:mm

2100A

**Specifications****Absolute Maximum Ratings** at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V_{DS}		10	V
Gate-to-Source Voltage	V_{GS}		± 10	V
Drain Current (DC)	I_D		100	mA
Allowable Power Dissipation	P_D		200	mW
Channel Temperature	T_{ch}		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	V_{DS}	$I_D=10\mu\text{A}, V_{GS}=0\text{V}$	10			V
Gate-to-Source Breakdown Voltage	V_{GS}	$I_G=\pm 10\mu\text{A}, V_{DS}=0\text{V}$	± 10			V
Zero-Gate Voltage Drain Current	I_{DSS}	$V_{DS}=5\text{V}, V_{GS}=0\text{V}$			1	μA
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS}=\pm 8\text{V}, V_{DS}=0\text{V}$		± 0.01	± 50	nA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS}=5\text{V}, I_D=100\mu\text{A}$	0.3		1.5	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS}=5\text{V}, I_D=50\text{mA}, f=1\text{kHz}$		80		mS
Input Capacitance	C_{iss}	$V_{DS}=5\text{V}, V_{GS}=0\text{V}, f=1\text{MHz}$		50		pF
Output Capacitance	C_{oss}	$V_{DS}=5\text{V}, V_{GS}=0\text{V}, f=1\text{MHz}$		10		pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS}=5\text{V}, V_{GS}=0\text{V}, f=1\text{MHz}$		5		pF

Marking : N1

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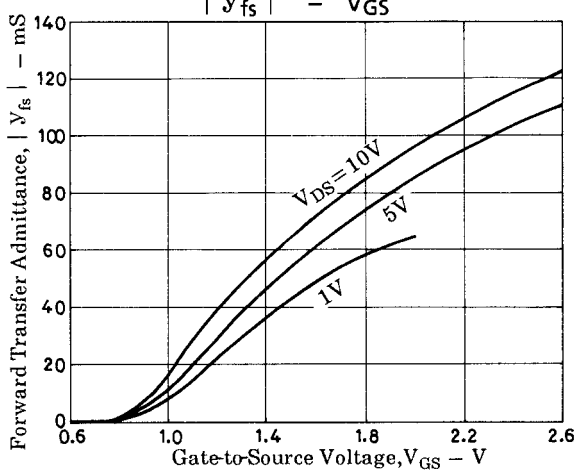
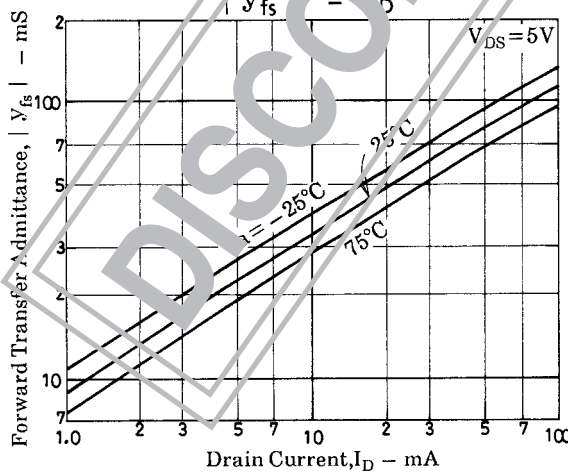
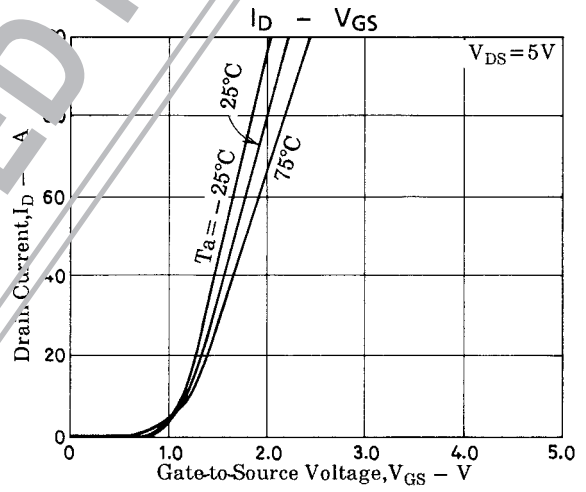
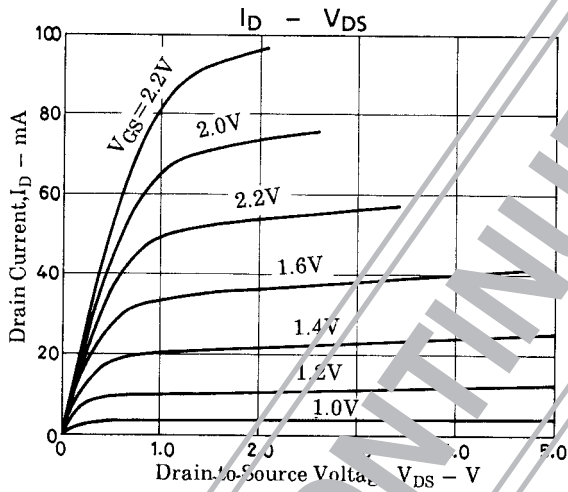
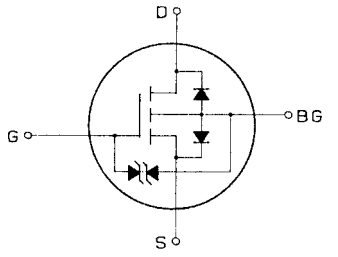
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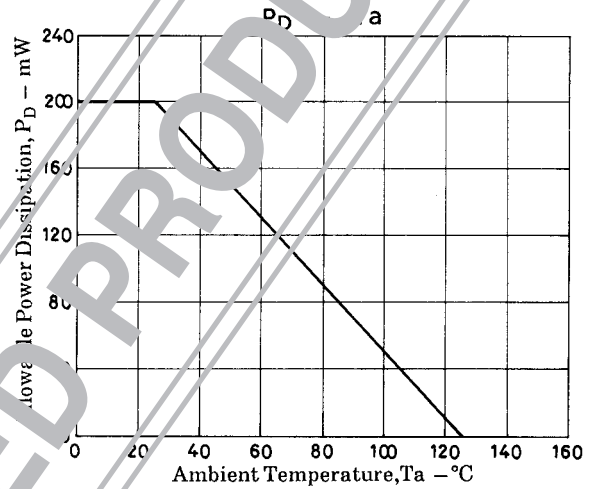
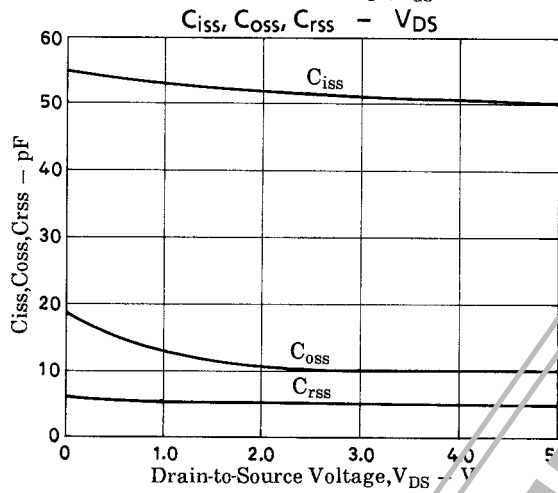
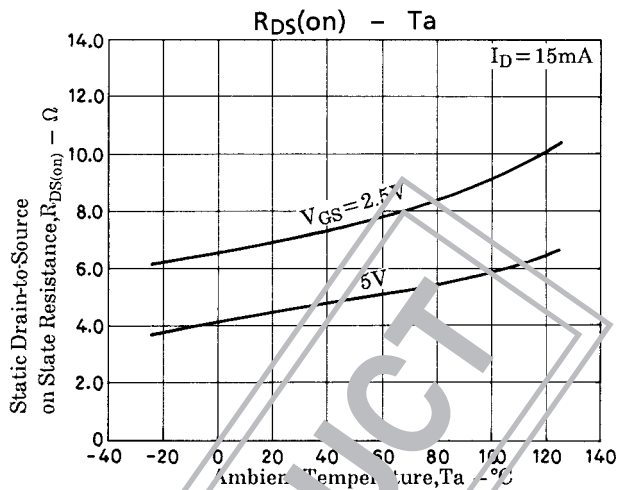
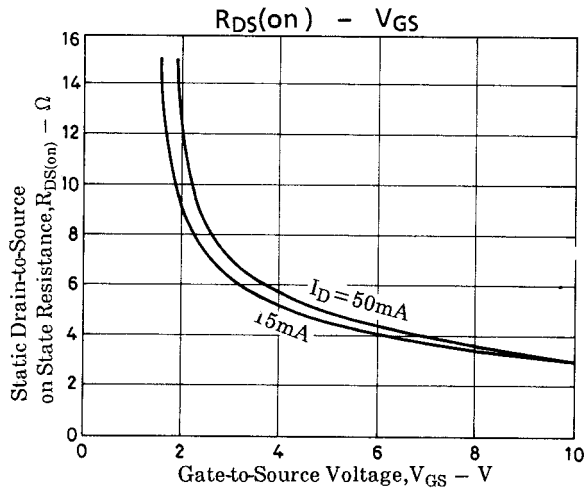
3SK248

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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Static Drain-to-Source ON-State Resistance	$R_{DS(on)1}$	$V_{GS}=5V, I_D=50mA$		5	7	Ω
	$R_{DS(on)2}$	$V_{GS}=2.5V, I_D=15mA$		7	12	Ω

Electrical Connection





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