

AUDIO FREQUENCY AMPLIFIER APPLICATIONS.

ANALOG SWITCH APPLICATIONS.

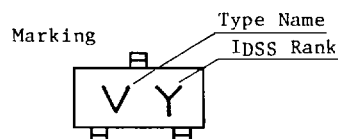
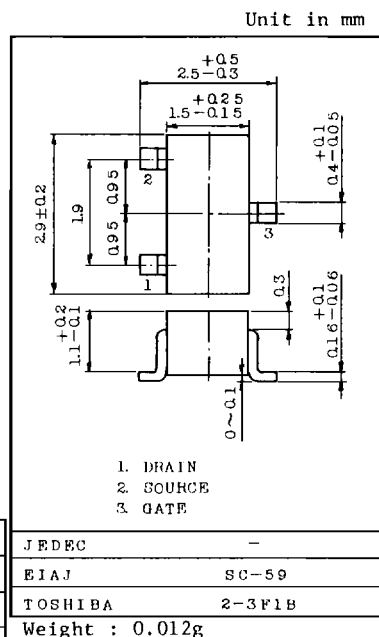
CONSTANT CURRENT APPLICATIONS.

IMPEDANCE CONVERTER APPLICATIONS.

- High Breakdown Voltage : $V_{GDS}=50V$ (Min.)
- High Input Impedance : $I_{GSS}=1.0nA$ (Max.) ($V_{GS}=30V$)
- Low $R_{DS(ON)}$: $R_{DS(ON)}=270\Omega$ (Typ.) ($I_{DSS}=-5mA$)
- Small Package

MAXIMUM RATINGS ($T_a=25^{\circ}C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Gate-Drain Voltage	V_{GDS}	50	V
Gate Current	I_G	-10	mA
Drain Power Dissipation	P_D	150	mW
Junction Temperature	T_j	125	$^{\circ}C$
Storage Temperature Range	T_{stg}	-55 ~ 125	$^{\circ}C$



ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate Leakage Current	I_{GSS}	$V_{GS}=30V, V_{DS}=0$	-	-	1.0	nA
Gate-Drain Breakdown Voltage	$V_{(BR)GDS}$	$V_{DS}=0, I_G=100\mu A$	50	-	-	V
Drain Current	I_{DSS} (Note)	$V_{DS}=-10V, V_{GS}=0$	-1.2	-	-14	mA
Gate-Source Cut-off Voltage	$V_{GS(OFF)}$	$V_{DS}=-10V, I_D=-0.1\mu A$	0.3	-	6.0	V
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS}=-10V, V_{GS}=0, f=1kHz$	1.0	4.0	-	mS
Drain-Source On Resistance	$R_{DS(ON)}$	$V_{DS}=-10mV, V_{GS}=0$ $I_{DSS}=-5mA$	-	270	-	Ω
Input Capacitance	C_{iss}	$V_{DS}=-10V, V_{GS}=0, f=1MHz$	-	18	-	pF
Reverse Transfer Capacitance	C_{rss}	$V_{DG}=-10V, I_D=0, f=1MHz$	-	3.6	-	pF

Note : I_{DSS} Classification Y : -1.2 ~ -3.0mA, GR(G) : -2.6 ~ -6.5mA, BL(L) : -6 ~ -14mA

