# FOR LOW FREQUENCY AMPLIFY APPLICATION P CHANNEL JUNCTION TYPE

### **DESCRIPTION**

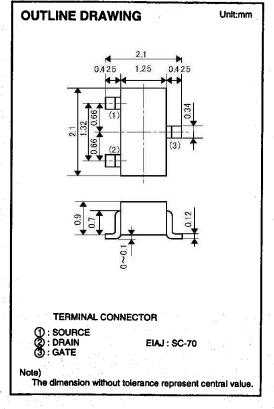
2SJ145 is a small type resin sealed P channel junction type FET. It is especially designed for low frequency voltage amplify, analog switch application.

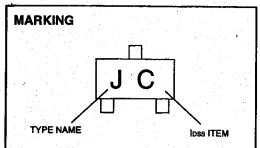
### **FEATURE**

- Small type for mounting.
- ●High lyfsl | lyfsl = 4mS (typ)
- ●Low RDS(ON) =220 Ω

### **APPLICATION**

General purpose voltage amplify, analog switch circuit for stereo, cassette deck, VCR.





#### MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
Vgpo	Gate to Drain voltage	50	V
lg	Gate Current	-10	mA
Pτ	Total allowable dissipation (Ta = 25 °C)	150	mW
Tch	Channel temperature	+125	ᢗ
Tstg	Storage temperature	-55 to +125	Č

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

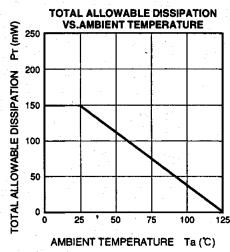
Symbol	Parameter	Test conditions	Santa Teller	Limits			1 1-14
				Min	Tvp	Max	Unit
V(BR)GDO	G to D break down voltage	Ig =10 μA, Is=0		50		1	V
IGSS	Gate leakage current	Vgs = 30V, Vps=0				1	nA
IDSS *	Drain current	VDS =-10V, VGS=0		-1.0	-4.0	-12	mA
VGS (off)	Cut off voltage	VDS =-10V, ID= -10 μA		0.3	1.5	6.0	V
i yfs I	Forward transfer admittance	Vps =-10V, Vgs=0, f=1kHz		1.5	4.0		mS
Ciss	Input capacitance	Vps =-10V, Vgs=0, f=1MHz			18		pF
RDS(ON)	Drain to source resistor	Vos =10mVrms(1kHz), Vgs=0, lpss=5n	nA		220		0

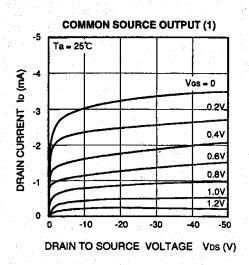
\* : It shows loss classification in right table.

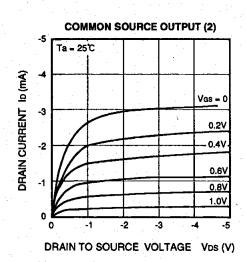
Item	С	D	Ē
IDSS	1.0 to 3.0	2.5 to 6.0	5.0 to 12

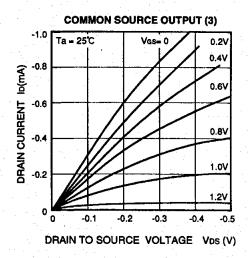
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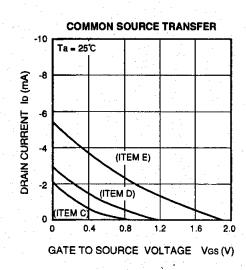
#### TYPICAL CHARACTERISTICS

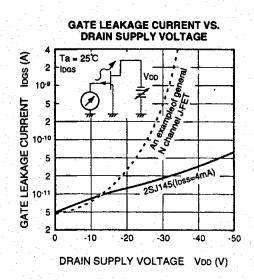




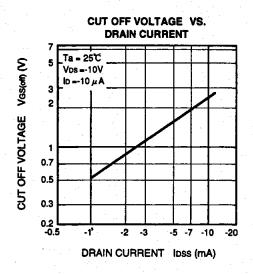


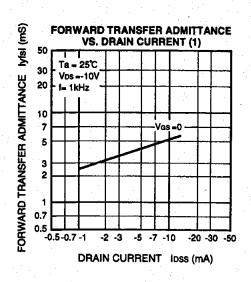


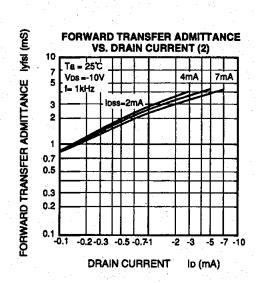


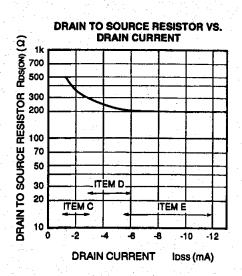


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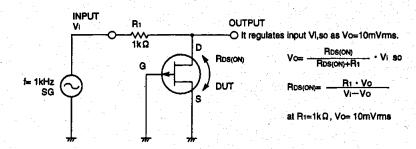








### DRAIN TO SOURCE RESISTOR RDS(ON) TEST CIRCUIT





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