2SJ145

FOR LOW FREQUENCY AMPLIFY APPLICATION P CHANNEL JUNCTION TYPE

DESCRIPTION

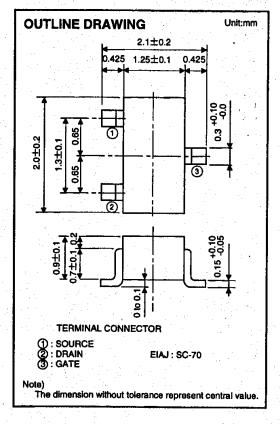
2SJ145 is a small type resin sealed P channel junction type FET. It is especially designed for low frequency voltage amplify, analog switch application.

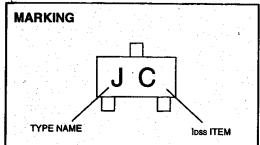
FEATURE

- Small type for mounting.
- ●High lyfsl | lyfsl = 4mS (typ)
- ●Low Ros(on) Ros(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	
IG	Gate Current	-10	mA	
Pī	Total allowable dissipation (Ta = 25 °C)	150	mW	
Tch	Channel temperature	+125	ซ	
Tstg	Storage temperature	-55 to +125	°C	

ELECTRICAL CHARACTERISTICS (Ta=25°C)

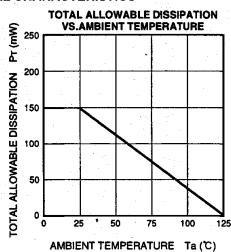
Symbol	Parameter	Test conditions	Limits			1 1-24	
		l est conduoris		Min	Tvp	Max	Unit
V(BR)GDO	G to D break down voltage	IG =10 μA, IS=0		50			V
IGSS	Gate leakage current	Vgs = 30V, Vps=0				1	nA
IDSS *	Drain current	Vps =-10V, Vgs=0		-1.0	-4.0	-12	mA
VGS (off)	Cut off voltage	VDS =-10V, ID= -10 μA		0.3	1.5	6.0	V
i yfs I	Forward transfer admittance	Vps =-10V, Vgs=0, f=1kHz	-	1.5	4.0	3.2	mS
Ciss	Input capacitance	Vps =-10V, Vgs=0, f=1MHz		1	18		ρF
RDS(ON)	Drain to source resistor	Vps =10mVrms(1kHz), Vgs=0, lpss=5mA			220		Ω

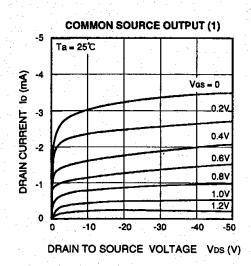
* : It shows loss classification in right table.

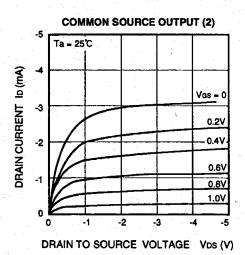
Item	С	D	E
IDSS	1.0 to 3.0	2.5 to 6.0	5.0 to 12

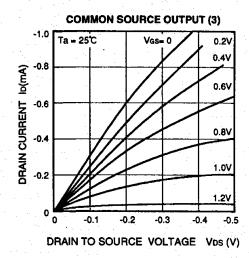
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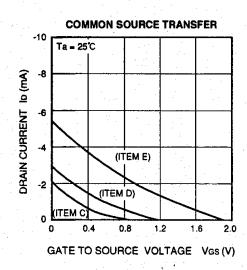
TYPICAL CHARACTERISTICS

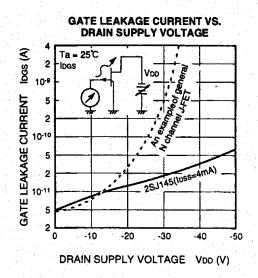




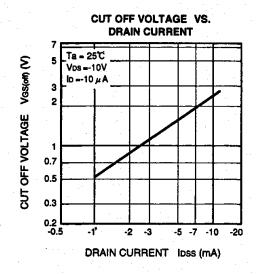


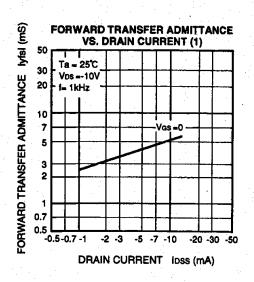


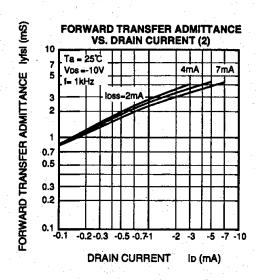


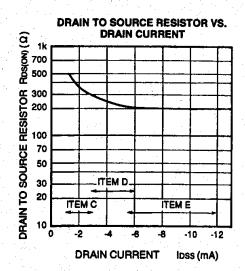


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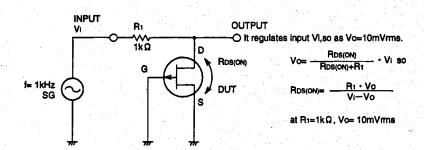








DRAIN TO SOURCE RESISTOR RDS(ON) TEST CIRCUIT





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