

Features

Especially suggested for use in high sensitive pre-amplifier, amplifying small sign, medical electrical instrument, d-c amplifier.

Type Packing

TO92S, SOT23-3, TO92, Metal Packing

Absolute Maximum Ratings

parameter	sign	spec		unit
		min	max	
Temperature Ambient	Tamb	-55	+125	
Storage Temperature	Tstg	-55	+175	
Gate to Drain Forward	IGF		10	mA
Drain current	ID		15	mA
Allowable Power Dissipation	Ptot		100	mw
Allowable Temperature Valid Junction	T(vj)		+175	

Critical Characteristics

Critical Characteristics Tamb=25		sign	spec			unit
			min	type	max	
Gate Black Down Voltage Source VDS=0V IGS 1uA		V(BR)GSS	30			V
Gate Leakage VDS=0V VGS= -10V		IGSS		1	10	nA
Cutoff Voltage VDS=10V ID=10uA	D,E,F G,H	VGS(off)		-0.6		V
Drain Current VDS=10V VGS=0V	D	IDSS	0.05		0.35	mA
	E		0.3		1.2	
	F		1		3.5	
	G		3		6.5	
	H		6		10	

Critical Characteristics Tamb=25		sign	spec			unit
			min	type	max	
Forward Transfer Admittance VDS=10V D.E.F VGS=0V f=1KHz G.H ID=3mA	D E F G,H	yfs		5000		us
Input Small Sign Capacitance VDS=10V f=500KHz		Ciss		3		PF
Reactive Small Sign Capacitance VDS=10V f=500KHz		Crss		1		PF
Input Equal Effect Noise Voltage VDS=10V ID=300uA f=100Hz		Vn			115	nv/ $\sqrt{\text{Hz}}$

Metal Packing

(TO92S)

(SOT23-3)

