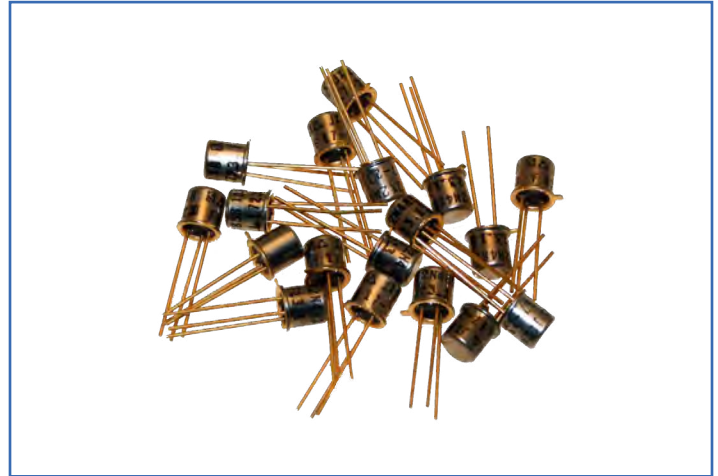


KEY FEATURES

- JAN/JANTX/JANTXV STANDARD PRODUCTS
- QUALIFIED PER MIL-PRF-19500/476F
- LOW ON RESISTANCE
- SWITCHES DIRECTLY FROM TTL LOGIC OR CMOS
- HIGH OFF ISOLATION
- S LEVEL EQUIVALENT SCREENING OPTIONS
- LIGHT WEIGHT
- SECOND SOURCE FOR MICROSEMI



Ideal for inverting switching or “Virtual Gnd” switching into inverting input of Op. Amp.
No driver is required and ±10VAC signals can be handled using only +5V logic (TTL or CMOS).

Part Number	Package	19500/	Breakdown Voltage	Current	R _{DS(on)}
2N5114	TO-18	476	30V	-90mA	75 Ω
2N5115	TO-18	476	30V	-60mA	100 Ω
2N5116	TO-18	476	30V	-25mA	175Ω

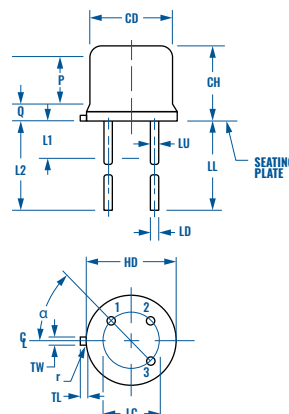
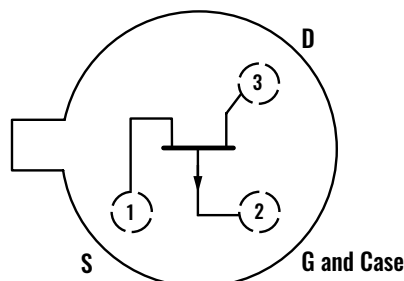
ABSOLUTE MAXIMUM RATINGS

Gate-Source Voltage	30V	Storage Temperature	-65 to 200°C
Gate Current	50mA	Operating Junction Temperature	-65 to 200°C
Lead Temperature (1/16 from case, 10 sec)	300°C	Power Dissipation Derating	500mW 3mW/°C @ T _a = 25°C

ORDERING GUIDE

JAN2N5114	JANTX2N5114	JANTXV2N5114
JAN2N5115	JANTX2N5115	JANTXV2N5115
JAN2N5116	JANTX2N5116	JANTXV2N5116

PACKAGE OUTLINE & PIN CONNECTIONS



Ltr	Dimensions			
	Inches		mm	
	Min.	Max.	Min.	Max.
CD	0.178	0.195	4.52	4.95
CH	0.170	0.210	4.32	5.33
HD	0.209	0.230	5.31	5.84
LC	0.100 TP		2.54 TP	
LD	0.016	0.021	0.41	0.53
LL	0.500	0.750	2.70	19.05
LU	0.016	0.019	0.41	0.48
L1	0.050			
L2	0.250		6.35	
P	0.100			
Q	0.030			
TL	0.028	0.048	0.71	1.22
TW	0.036	0.046	0.91	1.17
r	0.010			
α	45° TP			

ELECTRICAL SPECIFICATIONS

Typical @ 25°C unless otherwise noted

Parameter		Symbol	Min.	Max.	Unit
Gate-Source Breakdown Voltage $V_{DS} = 0Vdc, I_G = 1.0\mu Adc$		$V_{(BR)GSS}$	30		Vdc
Gate-Source "Off" State Voltage $V_{DS} = -15Vdc, I_D = -1.0nAdc$	2N5114 2N5115 2N5116	$V_{GS(off)}$	5.0 3.0 1.0	10.0 6.0 4.0	Vdc Vdc Vdc
Gate Reverse Current $V_{DS} = 0Vdc, V_{GS} = 20Vdc$		I_{GSS}		500	pA
Drain Cutoff Current $V_{DS} = -15Vdc, V_{GS} = 12Vdc$ $V_{DS} = -15Vdc, V_{GS} = 7Vdc$ $V_{DS} = -15Vdc, V_{GS} = 5Vdc$	2N5114 2N5115 2N5116	$I_{D(off)}$		-500 -500 -500	pA pA pA
Small Signal Drain to Source "On" Resistance $V_{GS} = 0Vdc, I_D = -1mAdc$ $V_{GS} = 0Vdc, I_D = 0Adc, f = 1kHz$	2N5114 2N5115 2N5116	$R_{DS(on)}$		75 100 175	Ω Ω Ω
Drain Source "On" State Voltage $V_{GS} = 0Vdc, I_D = -15mAdc$ $V_{GS} = 0Vdc, I_D = -7mAdc$ $V_{GS} = 0Vdc, I_D = -3mAdc$	2N5114 2N5115 2N5116	$V_{DS(on)}$		-1.3 -0.8 -0.6	Vdc Vdc Vdc
Small Signal, Common Source Reverse Transfer Capacitance $V_{GS} = 12Vdc, V_{DS} = 0Vdc$ $V_{GS} = 7Vdc, V_{DS} = 0Vdc$ $V_{GS} = 5Vdc, V_{DS} = 0Vdc$	2N5114 2N5115 2N5116	C_{rss}		7	pF
Small Signal, Common Source Short-Circuit Input Capacitance $V_{GS} = 0Vdc, V_{DS} = -15Vdc, f = 1.0MHz$	2N5114 2N5115 2N5116	C_{iss}		25 25 27	pF
Turn On Delay Time	2N5114 2N5115 2N5116	$t_{D(on)}$		6 10 25	nS nS nS
Rise Time	2N5114 2N5115 2N5116	t_r		10 20 35	nS nS nS
Turn Off Delay Time	2N5114 2N5115 2N5116	$t_{d(off)}$		6 8 20	nS nS nS