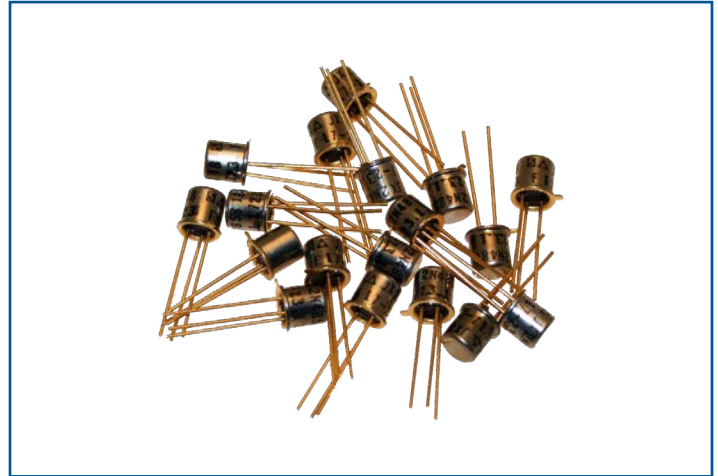


**KEY FEATURES**

- JAN/JANTX/JANTXV STANDARD PRODUCTS
- QUALIFIED PER MIL-PRF-19500/385
- LOW ON RESISTANCE
- FAST SWITCHING
- HIGH OFF ISOLATION
- S LEVEL EQUIVALENT SCREENING OPTIONS
- RADIATION TOLERANT
- SECOND SOURCE FOR VISHAY & SILICONIX



Part Number	Package	19500/	Breakdown Voltage	Current	$R_{DS(on)}$
2N4856	T0-18	385	40V	175mA	25 $\Omega$
2N4857	T0-18	385	40V	100mA	40 $\Omega$
2N4858	T0-18	385	40V	80mA	60 $\Omega$

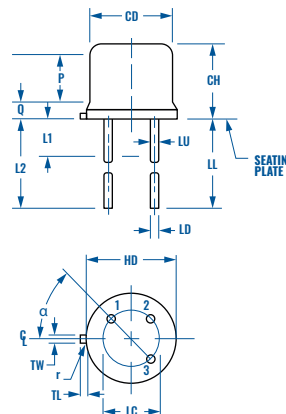
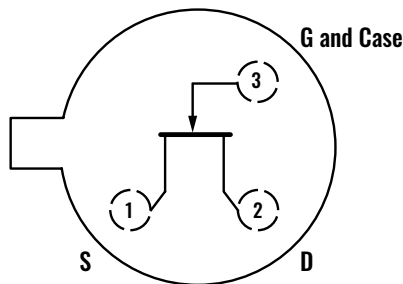
**ABSOLUTE MAXIMUM RATINGS**

Gate-Source Voltage	-40V	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	1800mW 10.3mW/°C to TC $\geq$ 25°C

**ORDERING GUIDE**

JAN2N4856	JANTX2N4856	JANTXV2N4856
JAN2N4857	JANTX2N4857	JANTXV2N4857
JAN2N4858	JANTX2N4858	JANTXV2N4858

**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			
alpha	45° TP			

**ELECTRICAL SPECIFICATIONS**

Typical @ 25°C unless otherwise noted

Parameter	Symbol	Min.	Max.	Unit
Gate-Source Breakdown Voltage $V_{DS} = 0Vdc, I_G = 1.0Adc$	$V_{(BR)GSS}$	-40		Vdc
Gate-Source "Off" State Voltage $V_{DS} = 15Vdc, I_D = 0.5nAdc$	$V_{GS(on)}$	-4	-10	Vdc
2N4856		-2	-6	Vdc
2N4857		-0.8	-4	Vdc
2N4858				
Gate Reverse Current $V_{DS} = 0Vdc, V_{GS} = -20Vdc$ $V_{DS} = 0Vdc, V_{GS} = -15Vdc$	$I_{GSS}$		-0.25 -0.25	nA nA
Drain Current $V_{DS} = 15Vdc, V_{GS} = -10Vdc$ $V_{DS} = 15Vdc, V_{GS} = 0Vdc$	$I_{D(off)}$	50	0.25	nA
2N4856		20	175	mA
2N4857		8	100	mA
2N4858			80	mA
Static Drain - Source "On" State Resistance $V_{GS} = 0Vdc, I_D = 1mAdc$	$R_{DS(on)}$		25	$\Omega$
2N4856			40	$\Omega$
2N4857			60	$\Omega$
2N4858				
Drain Source "On" State Voltage $V_{GS} = 0Vdc, I_D = 20mAdc$ $V_{GS} = 0Vdc, I_D = 10mAdc$ $V_{GS} = 0Vdc, I_D = 5mAdc$	$V_{DS(on)}$		0.75	Vdc
2N4856			0.5	Vdc
2N4857			0.5	Vdc
2N4858				
Small Signal, Common Source Reverse Transfer Capacitance $V_{GS} = -10Vdc, V_{DS}, V_D = 0Vdc, f = 1.0MHz$ $C_1 = 0.1\mu F, L_1 = L_2 \geq 500\mu H$	$C_{rss}$		8	pF
Small Signal, Common Source Short-Circuit Input Capacitance $V_{GS} = -10Vdc, V_{DS}, V_D = 0Vdc, f = 1.0MHz$ $C_1 = 0.1\mu F, C_2 = 20.1m$ $F_{L1} = L_2 \geq 500\mu H$	$C_{iss}$		8	pF
Turn On Delay Time	$t_{D(on)}$		6	nS
2N4856			6	nS
2N4857			10	nS
2N4858				
Rise Time	$t_r$		3	nS
2N4856			4	nS
2N4857			10	nS
2N4858				
Turn Off Delay Time	$t_{d(off)}$		25	nS
2N4856			50	nS
2N4857			100	nS
2N4858				

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