

## PNP SILICON SWITCHING TRANSISTOR

Qualified per MIL-PRF-19500/348

### Devices

2N3467  
2N3467L

2N3468  
2N3468L

### Qualified Level

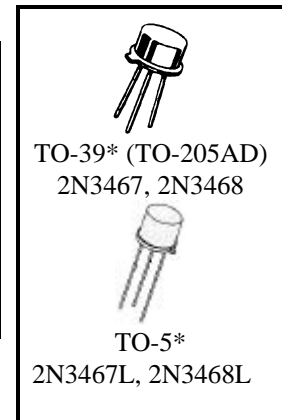
JAN  
JANTX  
JANTXV

### MAXIMUM RATINGS

Ratings	Symbol	2N3467 2N3467L	2N3468 2N3468L	Unit
Collector-Emitter Voltage	$V_{CEO}$	40	50	Vdc
Collector-Base Voltage	$V_{CBO}$	40	50	Vdc
Emitter-Base Voltage	$V_{EBO}$	5.0		Vdc
Collector Current	$I_C$	1.0		Adc
Total Power Dissipation	$P_T$	@ $T_A = +25^{\circ}\text{C}^{(1)}$		W
		@ $T_C = +25^{\circ}\text{C}^{(2)}$		W
Operating & Storage Junction Temperature Range	$T_{op}, T_{stg}$	-55 to +175		$^{\circ}\text{C}$

1) Derate linearly 5.71 mW/ $^{\circ}\text{C}$  for  $T_A > +25^{\circ}\text{C}$

2) Derate linearly 28.6 mW/ $^{\circ}\text{C}$  for  $T_C > +25^{\circ}\text{C}$



\*See appendix A for package outline

### ELECTRICAL CHARACTERISTICS

Characteristics	Symbol	Min.	Max.	Unit
-----------------	--------	------	------	------

### OFF CHARACTERISTICS

Collector-Emitter Breakdown Current $I_C = 10 \text{ mAdc}$	2N3467, L 2N3468, L	$V_{(BR)CBO}$	40 50	Vdc
Emitter-Base Breakdown Current $I_E = 10 \mu\text{Adc}$		$V_{(BR)EBO}$	5.0	Vdc
Collector-Emitter Breakdown Current $I_C = 10 \text{ mAdc}$	2N3467, L 2N3468, L	$V_{(BR)CEO}$	40 50	Vdc
Collector-Base Cutoff Current $V_{CB} = 30 \text{ Vdc}$		$I_{CBO}$		100 $\eta\text{Adc}$
Collector-Emitter Cutoff Current $V_{EB} = 3.0 \text{ Vdc}, V_{CE} = 30$		$I_{CEX}$		100 nAdc

**2N3467, L, 2N3468, L, JAN SERIES**

**ELECTRICAL CHARACTERISTICS (con't)**

Characteristics	Symbol	Min.	Max.	Unit
<b>ON CHARACTERISTICS (3)</b>				
Forward-Current Transfer Ratio $I_C = 150 \text{ mAdc}, V_{CE} = 1.0 \text{ Vdc}$ 2N3467, L 2N3468, L	$h_{FE}$	40		
$I_C = 500 \text{ mAdc}, V_{CE} = 1.0 \text{ Vdc}$ 2N3467, L 2N3468, L		25		
$I_C = 1.0 \text{ Adc}, V_{CE} = 5.0 \text{ Vdc}$ 2N3467, L 2N3468, L		40	120	
		25	75	
Collector-Emitter Saturation Voltage $I_C = 150 \text{ mAdc}, I_B = 15 \text{ mAdc}$ $I_C = 500 \text{ mAdc}, I_B = 50 \text{ mAdc}$ $I_C = 1.0 \text{ Adc}, I_B = 100 \text{ mAdc}$	$V_{CE(sat)}$		0.35 0.6 1.2	Vdc
Base-Emitter Saturation Voltage $I_C = 150 \text{ mAdc}, I_B = 15 \text{ mAdc}$ $I_C = 500 \text{ mAdc}, I_B = 50 \text{ mAdc}$ $I_C = 1.0 \text{ Adc}, I_B = 100 \text{ mAdc}$	$V_{BE(sat)}$	0.8	1.0 1.2 1.6	Vdc

**DYNAMIC CHARACTERISTICS**

Output Capacitance $V_{CB} = 10 \text{ Vdc}, I_E = 0, 100 \text{ kHz} \leq f \leq 1.0 \text{ MHz}$	$C_{obo}$		25	pF
Extrapolated Unity Gain Frequency $I_C = 50 \text{ mAdc}, V_{CE} = 10 \text{ Vdc}, f = 100\text{NHz}$ 2N3467, L 2N3468, L	$f_t$	175 150	500 500	MHz
Input Capacitance $V_{EB} = 0.5 \text{ Vdc}, I_C = 0, 100 \text{ kHz} \leq f \leq 1.0 \text{ MHz}$	$C_{ibo}$		100	pF

**SWITCHING CHARACTERISTICS**

Delay Time	$I_C = 500 \text{ mAdc}, I_{B1} = 50 \text{ mAdc}, V_{EB} = 2$	$t_d$		10	ns
Rise Time	$I_C = 500 \text{ mAdc}, I_{B1} = 50 \text{ mAdc}, V_{EB} = 2$	$t_r$		30	ns
Storage Time	$I_C = 500 \text{ mAdc}, I_{B1} = I_{B2} = 50 \text{ mAdc}$	$t_s$		60	ns
Fall Time	$I_C = 100 \text{ mAdc}, I_{B1} = I_{B2} = 50 \text{ mAdc}$	$t_f$		30	ns

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Microsemi:](#)

[2N3468L](#) [2N3468](#) [2N3467](#) [2N3467L](#) [Jantx2N3467L](#) [Jantxv2N3467L](#) [Jantx2N3468L](#) [Jan2N3468L](#) [Jantxv2N3468L](#)