



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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PNP SILICON SWITCHING TRANSISTOR

Qualified per MIL-PRF-19500/348

Devices

2N3467
2N3467L

2N3468
2N3468L

Qualified Level

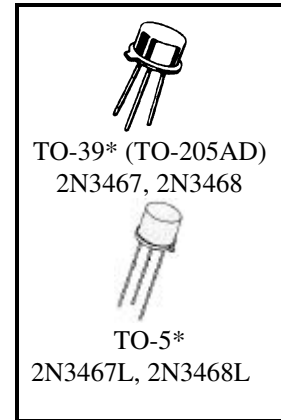
JAN
JANTX
JANTXV

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
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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 ηAdc
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
ON CHARACTERISTICS (3)				
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