

New Jersey Semi-Conductor Products, Inc.

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U.S.A.**

2N4248
2N4249
2N4250
2N4250

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SILICON PNP TRANSISTOR

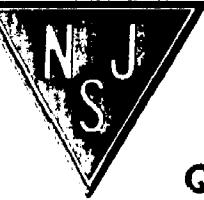
TO-106

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)

<u>SYMBOL</u>	<u>2N4248</u>	<u>2N4249</u>	<u>UNIT</u>
	<u>2N4250</u>	<u>2N4250A</u>	
Collector-Base Voltage	V _{CBO}	40	V
Collector-Emitter Voltage	V _{CES}	40	V
Collector-Emitter Voltage	V _{CEO}	40	V
Emitter-Base Voltage	V _{EBO}	5.0	V
Power Dissipation	P _D	200	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-55 TO +150	°C

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$)

SYMBOL	2N4248	2N4249		2N4250		2N4250A		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	
I_{CBO}	$V_{CB}=40V$ (2N4250A $V_{CB}=50V$)	10		10		10		10
I_{EBO}	$V_{EB}=3.0V$		20		20		20	μA
BV_{CBO}	$I_C=10\mu A$	40		60		40		V
BV_{CES}	$I_C=10\mu A$	40		60		40		V
BV_{CEO}	$I_C=5.0mA$	40		60		40		V
BV_{EBO}	$I_E=10\mu A$	5.0		5.0		5.0		V
$V_{CE(s)}$	$I_C=10mA$, $I_B=0.5mA$		0.25		0.25		0.25	V
$V_{BE(s)}$	$I_C=10mA$, $I_B=0.5mA$		0.9		0.9		0.9	V
h_{FE}	$V_{CE}=5.0V$, $I_C=100\mu A$	50		100	300	250	700	250
h_{FE}	$V_{CE}=5.0V$, $I_C=1.0mA$	50		100		250		---
h_{FE}	$V_{CE}=5.0V$, $I_C=10mA$	50		100		250		---
f_T	$V_{CE}=5.0V$, $I_C=0.5mA$, $f=20MHz$	40		40		50		MHz
C_{ob}	$V_{CB}=5.0V$, $f=1.0MHz$		6.0		6.0		6.0	pF
C_{IB}	$V_{EB}=0.5V$, $f=1.0MHz$		16		16		16	pF
NF	Wide Band, $V_{CE}=5.0V$, $I_C=20\mu A$, $R_s=100K\Omega$ $PBW=15.7kHz$, $f=10Hz$							
NF	TO 10kHz	---		3.0		2.0		dB
NF	Narrow Band, $V_{CE}=5.0V$, $I_C=20\mu A$, $R_s=10K\Omega$ $PBW=150Hz$, $f=1.0kHz$	---		3.0		2.0		dB



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Quality Semi-Conductors