

New Jersey Semi-Conductor Products, Inc.

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PN4354
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PN4356

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PNP SILICON TRANSISTOR

JEDEC TO-92 CASE (EBC)

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

	SYMBOL	PN4354		UNITS
		PN4355	PN4356	
Collector-Base Voltage	V_{CB0}	60	80	V
Collector-Emitter Voltage	V_{CE0}	60	80	V
Emitter-Base Voltage	V_{EB0}	5.0	5.0	V
Collector Current	I_C	500	500	mA
Power Dissipation	P_D	625	625	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150		$^\circ\text{C}$
Thermal Resistance	θ_{JA}	200		$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	PN4354		PN4355		PN4356		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	
I_{CBO}	$V_{CB} = 50\text{V}$		50		50		50	nA
I_{CBO}	$V_{CB} = 50\text{V}, T_A = 75^\circ\text{C}$		5.0		5.0		5.0	μA
I_{EBO}	$V_{BE} = 4.0\text{V}$		100		100		100	nA
BV_{CB0}	$I_C = 10\mu\text{A}$	60		60		80		V
BV_{CE0}	$I_C = 10\text{mA}$	60		60		80		V
BV_{EB0}	$I_C = 10\mu\text{A}$	5.0		5.0		5.0		V
$V_{CE(SAT)}$	$I_C = 150\text{mA}, I_B = 15\text{mA}$		0.15		0.15		0.15	V
$V_{CE(SAT)}$	$I_C = 500\text{mA}, I_B = 50\text{mA}$		0.5		0.5		0.5	V
$V_{CE(SAT)}$	$I_C = 1.0\text{A}, I_B = 100\text{mA}$		-		1.0		-	V
$V_{BE(SAT)}$	$I_C = 150\text{mA}, I_B = 15\text{mA}$		0.9		0.9		0.9	V
$V_{BE(SAT)}$	$I_C = 500\text{mA}, I_B = 50\text{mA}$		1.1		1.1		1.1	V
$V_{BE(SAT)}$	$I_C = 1.0\text{A}, I_B = 100\text{mA}$		-		1.2		-	V
$V_{BE(ON)}$	$V_{CE} = 0.5\text{V}, I_C = 500\text{mA}$		1.1		1.1		1.1	V
$V_{BE(ON)}$	$V_{CE} = 1.0\text{V}, I_C = 1.0\text{A}$		-		1.2		-	V



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors