

New Jersey Semi-Conductor Products, Inc.

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2N1479
2N1480
2N1481
2N1482

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NPN SILICON TRANSISTOR

JEDEC TO-39 CASE

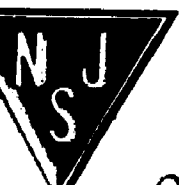
2N1479 series types are silicon NPN transistors manufactured by the epitaxial planar process, mounted in a hermetically sealed metal case designed for switching and amplifier applications.

MAXIMUM RATINGS ($T_C=25^\circ\text{C}$ unless otherwise noted)

	<u>SYMBOL</u>	<u>2N1479</u> <u>2N1481</u>	<u>2N1480</u> <u>2N1482</u>	<u>UNIT</u>
Collector-Base Voltage	V _{CB0}	60	100	V
Collector-Emitter Voltage	V _{CEV}	60	100	V
Collector-Emitter Voltage	V _{CEO}	40	55	V
Emitter-Base Voltage	V _{EB0}	6.0	6.0	V
Collector Current	I _C	1.5	1.5	A
Base Current	I _B	1.0	1.0	A
Power Dissipation	P _D	5.0	5.0	W
Operating and Storage Junction Temperature	T _J , T _{STG}	-65 TO +200		°C
Thermal Resistance	θ _{JC}	35		°C/W

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>2N1479</u>		<u>2N1480</u>		<u>2N1481</u>		<u>2N1482</u>		<u>UNIT</u>
		<u>MIN</u>	<u>MAX</u>	<u>MIN</u>	<u>MAX</u>	<u>MIN</u>	<u>MAX</u>	<u>MIN</u>	<u>MAX</u>	
I _{CB0}	V _{CB} =30V		10		10		10		10	μA
I _{CB0}	V _{CB} =30V, T _C =150°C		500		500		500		500	μA
I _{EB0}	V _{EB} =6.0V		10		10		10		10	μA
BV _{CEV}	V _{EB} =1.5V, I _C =0.25mA	60		100		60		100		V
BV _{CEO}	I _C =50mA	40		55		40		55		V
V _{CE(SAT)}	I _C =200mA, I _B =10mA		-		-		1.4		1.4	V
V _{CE(SAT)}	I _C =200mA, I _B =20mA		1.4		1.4		-		-	V
V _{BE(ON)}	V _{CE} =4.0V, I _C =200mA		3.0		3.0		3.0		3.0	V
h _{FE}	V _{CE} =4.0V, I _C =200mA	20	60	20	60	35	100	35	100	
h _{fe}	V _{CE} =4.0V, I _C =5.0mA	50 TYP		50 TYP		50 TYP		50 TYP		
t _{ON}	I _C =200mA, I _{B1} =20mA, I _{B2} =85mA	1.2 TYP		1.2 TYP		1.2 TYP		1.2 TYP		μs
t _{OFF}	I _C =200mA, I _{B1} =20mA, I _{B2} =85mA	1.6 TYP		1.6 TYP		1.6 TYP		1.6 TYP		μs
C _{ob}	V _{CB} =40V	150 TYP		150 TYP		150 TYP		150 TYP		pF
f _{αB}	V _{CB} =28V, I _C =5.0mA	1.5 TYP		1.5 TYP		1.5 TYP		1.5 TYP		MHZ



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