New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.
SPRINGFIELD, NEW JERSEY 07081
U.S.A.

TELEPHONE: (973) 376-2922
(212) 227-6005
FAX: (973) 376-8960

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PNP SILICON PLANAR MEDIUM POWER TRANSISTOR

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	-100	V
Collector-Emitter Voltage	V_{CEO}	-80	V
Emitter-Base Voltage	V_{EBO}	-5	V
Peak Pulse Current	I_{CM}	-2	A
Continuous Collector Current	I_C	-1	A
Power Dissipation at T_{amb}= 25°C	P_{tot}	1	W
Operating and Storage Temperature Range	T_j:T_{stg}	-55 to +200	°C

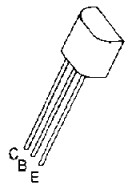
ELECTRICAL CHARACTERISTICS (at T_{amb} = 25°C unless otherwise stated).

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-100			V	I_C=-100μA, I_E=0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-80			V	I_C=-10mA, I_B=0*
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I_E=-1mA, I_C=0
Collector Cut-Off Current	I_{CBO}			-0.1	μA	V_{CB}=-80V, I_E=0
Emitter Cut-Off Current	I_{EBO}			-10	μA	V_{EB}=-5V, I_C=0
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.35	V	I_C=-350mA, I_B=-35mA*
Base-Emitter Turn-On Voltage	$V_{BE(on)}$			-1.0	V	IC=-350mA, V_{CE}=-2V*
Static Forward Current Transfer Ratio	h_{FE}	100 100		 300		I_C=-10mA, V_{CE}=-2V* I_C=-350mA, V_{CE}=-2V*
Transition Frequency	f_T	50		500	MHz	I_C=-200mA, V_{CE}=-5V f=20MHz
Collector-Base Capacitance	C_{CB}			20	pF	V_{CB}=-10V, f=1MHz

*Measured under pulsed conditions. Pulse width=300μs. Duty cycle ≤2%

FEATURES

* 80 Volt V_{CEO}
* Gain of 100 at I_C = 350 mA
* P_{tot}=1 Watt



E-Line
TO92 Compatible

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 datasheet are current before placing orders.

Quality Semi-Conductors