20 STERN AVE. SPRINGFIELD, NEW JERSEY 07081 U.S.A. TELEPHONE: (973) 376-2922

(212) 227-6005

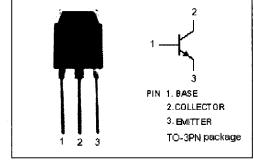
FAX: (973) 376-8960

Silicon NPN Power Transistor

D209L

DESCRIPTION

- · High Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 400V(Min)
- · High Switching Speed
- · High Reliability

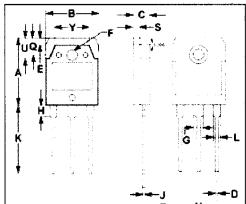


APPLICATIONS

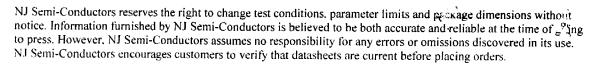
- · Switching regulators
- · Ultrasonic generators
- · High frequency inverters
- · General purpose power amplifiers

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	700	V	
V _{CEO}	Collector-Emitter Voltage	400	V	
V _{EBO}	Emitter-Base voltage	9	V	
Ic	Collector Current-Continuous	12	Α	
Pc	Collector Power Dissipation @ T _C =25°C	Dissipation 100		
Tj	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range -55~150		Ç	



	m	m
DIM	MIN	MAX
A	19.90	20.10
₿	15.38	15.42
B C D	4.75	4.85
D	0.90	1.10
E	1.90	2.10
Ŧ	3.40	3.60
G	2.98	3.02
Н	3,20	3.40
۲	0.595	0.605
Κ	19.95	20.25
L	1.98	2.02
Z	10.89	10.91
Q	4.95	5.05
R	3.35	3.45
S	1.995	2.005
U	5.90	6.10
Y	9.90	10.10



ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	400			٧
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	700			V
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C =0			0.01	mA
h _{FE1}	DC Current Gain	I _C =5A; V _{CE} = 5V	8		40	
h _{FE2}	DC Current Gain	I _C =8A; V _{CE} = 5V	6		30	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 8A; I _B = 1.6A			1.2	V
fτ	Current Gain Bandwidth Product	V _{CE} =10V,I _C =100mA,f=1MHZ	5			MHZ
Switching t	imes					
ts	Storage Time	I _C = 8A, I _{B1} = -I _{B2} = 1.6A			3.0	μς
t _f	Fall Time				0.7	μς