

Silicon PNP Power Transistor

2SA1329

DESCRIPTION

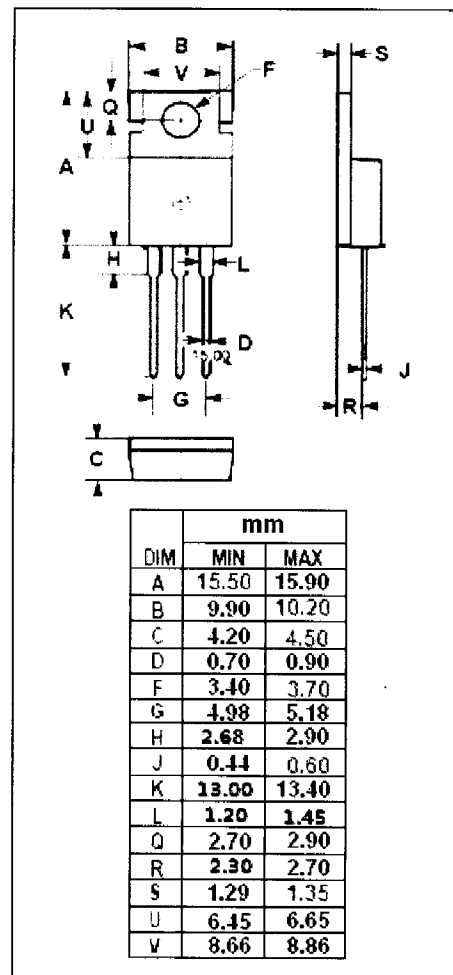
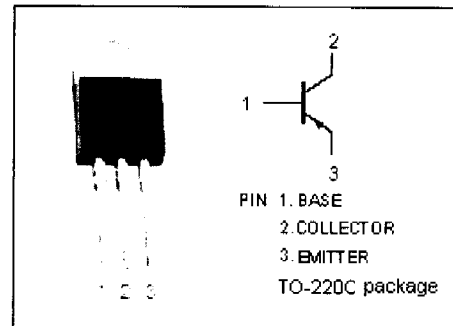
- Low Collector Saturation Voltage
 $V_{CE(sat)} = -0.4(V)(Max) @ I_C = -6A$
- High Switching Speed
- Complement to Type 2SC3346

APPLICATIONS

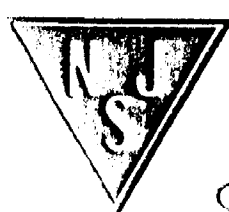
- Designed for high current switching applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-80	V
V _{CEO}	Collector-Emitter Voltage	-80	V
V _{EBO}	Emitter-Base Voltage	-6	V
I _C	Collector Current-Continuous	-12	A
I _B	Base Current-Continuous	-2	A
P _C	Total Power Dissipation @ T _C =25°C	40	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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ELECTRICAL CHARACTERISTICS

$T_C=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C = -50\text{mA}; I_B = 0$	-80			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -6\text{A}; I_B = -0.3\text{A}$			-0.4	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -6\text{A}; I_B = -0.3\text{A}$			-1.2	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -80\text{V}; I_E = 0$			-10	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -6\text{V}; I_C = 0$			-10	μA
h_{FE-1}	DC Current Gain	$I_C = -1\text{A}; V_{CE} = -1\text{V}$	70		240	
h_{FE-2}	DC Current Gain	$I_C = -6\text{A}; V_{CE} = -1\text{V}$	40			
f_T	Current-Gain—Bandwidth Product	$I_C = -1\text{A}; V_{CE} = -5\text{V}$		50		MHz
C_{OB}	Output Capacitance	$I_E = 0; V_{CB} = -10\text{V}; f_{test} = 1\text{MHz}$		400		pF

Switching Times

t_{on}	Turn-on Time	$R_L = 5\Omega; I_{B1} = -I_{B2} = -0.3\text{A},$ $V_{CC} = -30\text{V}; \text{Duty Cycle} \leq 1\%$		0.3		μs
t_{stg}	Storage Time			1.0		μs
t_f	Fall Time			0.5		μs

◆ h_{FE-1} Classifications

O	Y
70-140	120-240