

# isc Silicon PNP Power Transistor

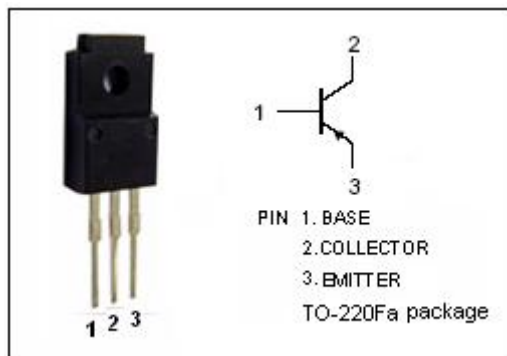
# 2SA1327

### DESCRIPTION

- Low Collector Saturation Voltage-  
:  $V_{CE(sat)} = -0.5V(\text{Max.}) @ I_C = -8A$
- High DC Current Gain-  
:  $hFE = 70(\text{Min.}) @ I_C = -8A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

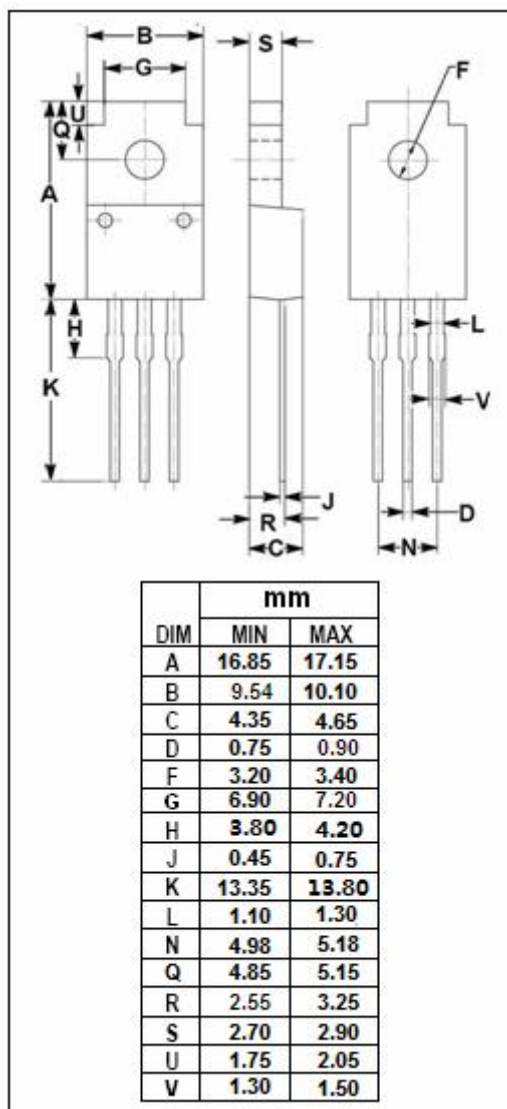
### APPLICATIONS

- Strobe flash applications.
- Audio power amplifier applications.



### ABSOLUTE MAXIMUM RATINGS ( $T_a = 25^\circ C$ )

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-50	V
$V_{CEO}$	Collector-Emitter Voltage	-20	V
$V_{EBO}$	Emitter-Base Voltage	-8	V
$I_C$	Collector Current-Continuous	-10	A
$I_{CM}$	Collector Current-Pulse	-20	A
$I_B$	Base Current-Continuous	-2	A
$P_C$	Collector Power Dissipation @ $T_a = 25^\circ C$	2	W
	Collector Power Dissipation @ $T_c = 25^\circ C$	20	
$T_J$	Junction Temperature	150	$^\circ C$
$T_{stg}$	Storage Temperature	-55~150	$^\circ C$



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## ELECTRICAL CHARACTERISTICS

T<sub>j</sub>=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -10mA; I <sub>B</sub> = 0	-20			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -8A; I <sub>B</sub> = -0.4A			-0.5	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = -8A; V <sub>CE</sub> = -2V			-1.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -50V; I <sub>E</sub> = 0			-1.0	μ A
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -8V; I <sub>C</sub> = 0			-1.0	μ A
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -1A; V <sub>CE</sub> = -2V	100		320	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -8A; V <sub>CE</sub> = -2V	70			
f <sub>T</sub>	Current-Gain—Bandwidth Product	I <sub>C</sub> = -1A; V <sub>CE</sub> = -2V		45		MHz
C <sub>OB</sub>	Output Capacitance	I <sub>E</sub> = 0; V <sub>CB</sub> = -10V; f= 1MHz		400		pF

◆ h<sub>FE-1</sub> Classifications

O	Y
100-200	160-320

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