

**Silicon PNP Power Transistor**

**2SA1232**

**DESCRIPTION**

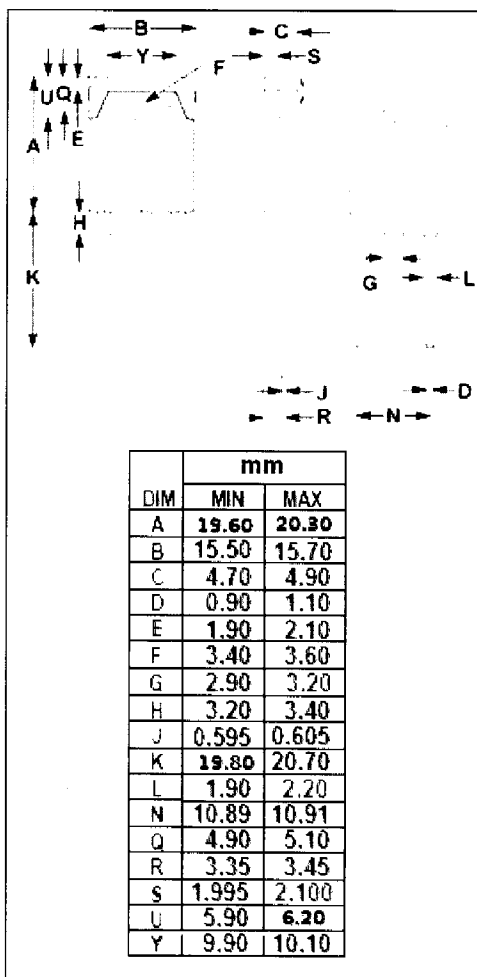
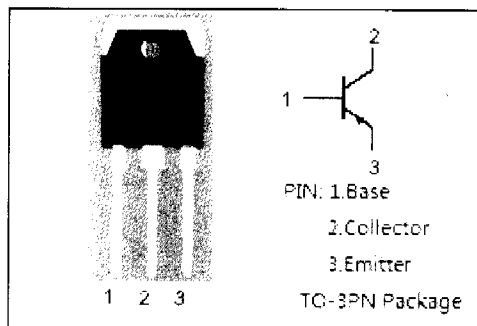
- Collector-Emitter Breakdown Voltage:  
 $V_{(BR)CEO} = -130V(\text{Min})$
- Good Linearity of  $h_{FE}$
- Complement to Type 2SC3012

**APPLICATIONS**

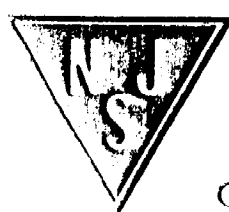
- For audio frequency power amplifier applications.

**ABSOLUTE MAXIMUM RATINGS( $T_a=25^\circ\text{C}$ )**

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-130	V
$V_{CEO}$	Collector-Emitter Voltage	-130	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current-Continuous	-10	A
$I_{CM}$	Collector Current-Peak	-15	A
$P_C$	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	100	W
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ\text{C}$



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## ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -5.0A; I_B = -0.5A$			-1.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -5.0A; I_B = -0.5A$			-2.0	V
$I_{CBO}$	Collector Cutoff Current	$V_{CB} = -130V; I_E = 0$			-50	$\mu A$
$I_{EBO}$	Emitter Cutoff Current	$V_{EB} = -3V; I_C = 0$			-50	$\mu A$
$h_{FE-1}$	DC Current Gain	$I_C = -2A; V_{CE} = -5V$	60		320	
$h_{FE-2}$	DC Current Gain	$I_C = -5A; V_{CE} = -5V$	40			
$C_{OB}$	Output Capacitance	$I_E = 0; V_{CB} = -10V; f = 1.0MHz$		250		pF
$f_T$	Current-Gain—Bandwidth Product	$I_C = -1A; V_{CE} = -5V$		60		MHz

### ◆ $h_{FE-1}$ Classifications

R	Q	P
60-120	100-200	160-320