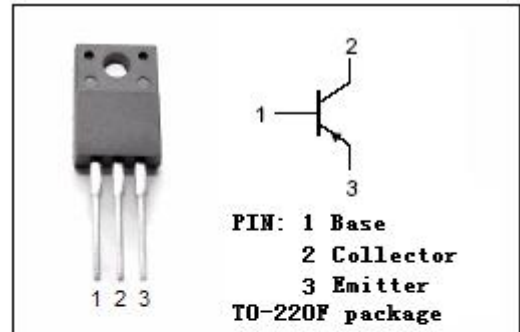


**isc Silicon PNP Power Transistor**
**2SB1455**
**DESCRIPTION**

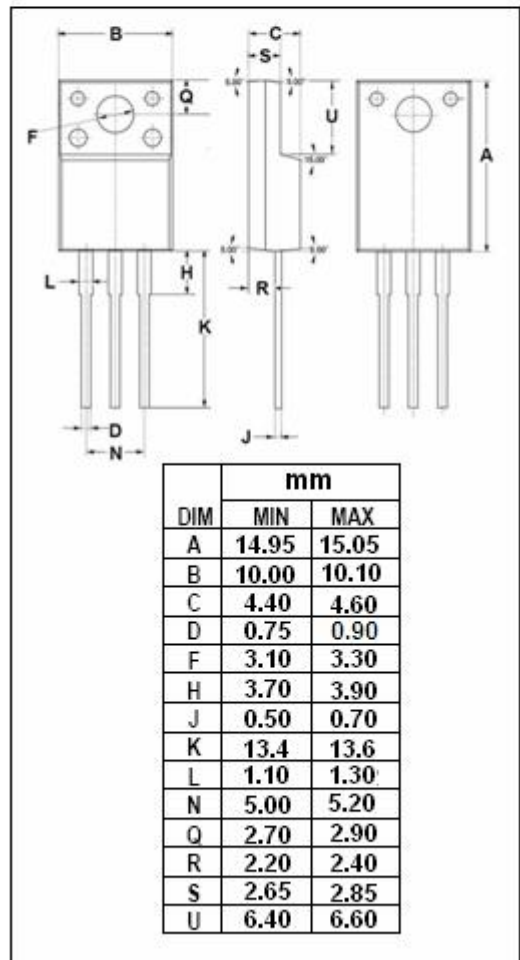
- Collector-Emitter Breakdown Voltage-  
:  $V_{(BR)CEO} = -80V(\text{Min})$
- Low Collector Saturation Voltage-  
:  $V_{CE(sat)} = -0.5V(\text{Max})@ (I_C = -4A, I_B = -0.4A)$
- Complement to Type 2SD2203
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


**APPLICATIONS**

- Designed for high-current switching applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-90	V
$V_{CEO}$	Collector-Emitter Voltage	-80	V
$V_{EBO}$	Emitter-Base Voltage	-6	V
$I_C$	Collector Current-Continuous	-7	A
$I_{CM}$	Collector Current-Pulse	-12	A
$P_C$	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	2	W
	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	30	
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature	-55~150	$^\circ\text{C}$



**isc Silicon PNP Power Transistor**
**2SB1455**
**ELECTRICAL CHARACTERISTICS**
*T<sub>j</sub>*=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C = -1mA; R_{BE} = \infty$	-80			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	$I_C = -1mA; I_E = 0$	-90			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E = -1mA; I_C = 0$	-6			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -4A; I_B = -0.4A$			-0.5	V
$I_{CBO}$	Collector Cutoff Current	$V_{CB} = -80V; I_E = 0$			-100	$\mu A$
$I_{EBO}$	Emitter Cutoff Current	$V_{EB} = -4V; I_C = 0$			-100	$\mu A$
$h_{FE-1}$	DC Current Gain	$I_C = -1A; V_{CE} = -2V$	70		280	
$h_{FE-2}$	DC Current Gain	$I_C = -4A; V_{CE} = -2V$	30			
$f_T$	Current-Gain—Bandwidth Product	$I_C = -1A; V_{CE} = -5V$		20		MHz

**Switching Times**

$t_{on}$	Turn-on Time	$V_{CC} = -50V, R_L = 25\Omega,$ $I_C = -2A; I_{B1} = -I_{B2} = -0.2A,$		0.2		$\mu s$
$t_{stg}$	Storage Time			0.7		$\mu s$
$t_f$	Fall Time			0.2		$\mu s$

**◆  $h_{FE-1}$  Classifications**

Q	R	S
70-140	100-200	140-280

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