

isc Silicon PNP Power Transistor
2SA473
DESCRIPTION

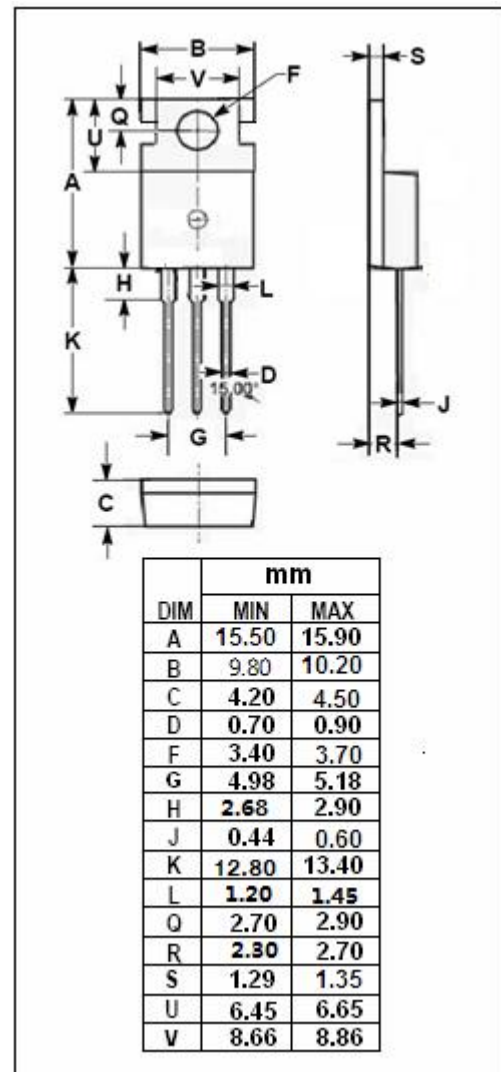
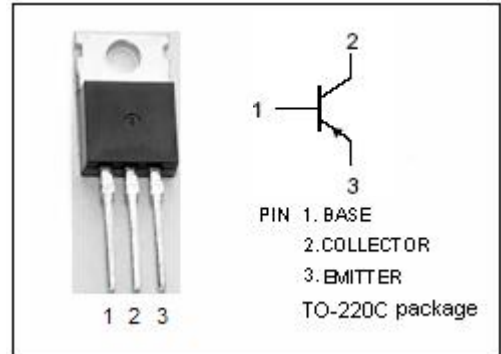
- Collector-Emitter Breakdown Voltage
: $V_{(BR)CEO} = -30V(\text{Min})$
- Good Linearity of h_{FE}
- Complement to Type 2SC1173
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power amplifier applications.
- Car radio and car stereo output stage applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-30	V
V_{CEO}	Collector-Emitter Voltage	-30	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-3	A
I_E	Emitter Current-Continuous	-3.0	A
P_C	Total Power Dissipation @ $T_C=25^\circ\text{C}$	10	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon PNP Power Transistor**2SA473****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	$I_C = -10\text{ mA}; I_B = 0$	-30			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E = -1\text{ mA}; I_C = 0$	-5			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -2\text{ A}; I_B = -0.2\text{ A}$			-0.8	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C = -0.5\text{ A}; V_{CE} = -2\text{ V}$			-1.0	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -20\text{ V}; I_E = 0$			-1.0	$\mu\text{ A}$
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -5\text{ V}; I_C = 0$			-1.0	$\mu\text{ A}$
h_{FE-1}	DC Current Gain	$I_C = -0.5\text{ A}; V_{CE} = -2\text{ V}$	70		240	
h_{FE-2}	DC Current Gain	$I_C = -2.5\text{ A}; V_{CE} = -2\text{ V}$	25			
C_{OB}	Collector Output Capacitance	$I_E = 0; V_{CB} = -10\text{ V}; f = 1\text{ MHz}$		40		pF
f_T	Current-Gain—Bandwidth Product	$I_E = 0.5\text{ A}; V_{CE} = -2\text{ V}$		100		MHz

◆ **h_{FE-1} Classifications**

O	Y
70-140	120-240

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