

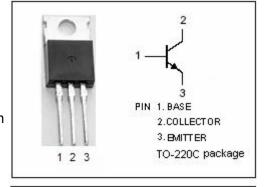
isc Silicon PNP Power Transistors

DESCRIPTION

- · Low Saturation Voltage
- · Good Linearity of hFE
- · Fast Switching Speeds
- Complement to Type D44C6
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Designed for various specific and general purpose application such as: output and driver stages of amplifiers operating at frequencies from DC to greater than 1.0MHz series, shunt and switching regulators; low and high frequency inverters/ converters and many others.

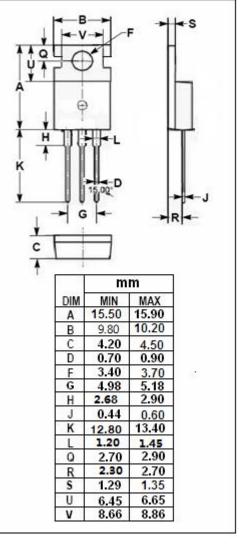


ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CES}	Collector-Emitter Voltage	-55	V
V _{CEO}	Collector-Emitter Voltage	-45	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous -4		Α
I _{CM}	Collector Current-Peak	-6	Α
lΒ	Base Current-Continuous	-1	Α
Pc	Collector Power Dissipation @T _C =25°C		W
T _j	Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

S	SYMBOL PARAMETER		MAX	UNIT
R _{th j-c}		Thermal Resistance, Junction to Case	4.2	°C/W



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D45C6

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

10-20 C unicos otherwise specified										
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT				
$V_{\text{CE}(\text{sat})}$	Collector-Emitter Saturation Voltage	I _C = -1A; I _B = -50mA			-0.5	V				
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -1A; I _B = -100mA			-1.3	V				
I _{CES}	Collector Cutoff Current	V _{CE} = -55V, V _{BE} = 0			-10	μА				
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-100	μА				
h _{FE-1}	DC Current Gain	I _C = -0.2A; V _{CE} = -1V	40		120					
h _{FE-2}	DC Current Gain	I _C = -2A; V _{CE} = -1V	20							
f _T	Current-Gain—Bandwidth Product	I _C = -20mA;V _{CE} = -4V;f _{test} = 1MHz		40		MHz				
Switching Times										
t _r	Rise Time				0.2	μS				
ts	Storage Time	I _C = -1A; I _{B1} = -I _{B2} = -0.1A; V _{CC} = -20V			0.6	μS				
t _f	Fall Time				0.3	μS				

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