

isc Silicon NPN Power Transistor

2N6290

DESCRIPTION

- DC Current Gain-
 - : h_{FE} = 30-150@ I_C= 2.5A
- Collector-Emitter Sustaining Voltage-

- : V_{CEO(SUS)}= 50V(Min)
- Complement to Type 2N6109
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

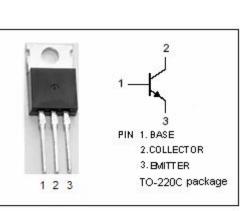
APPLICATIONS

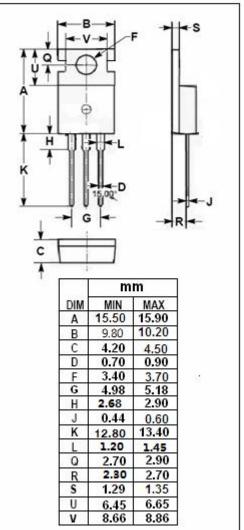
• Designed for use in general-purpose amplifier and switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)							
SYMBOL	PARAMETER	VALUE	UNIT				
Vсво	Collector-Base Voltage	60	V				
V _{CEO}	Collector-Emitter Voltage	50	V				
V _{EBO}	Emitter-Base Voltage	5	V				
lc	Collector Current-Continuous	7	А				
I _{CM}	Collector Current-Peak	10	А				
Ів	Base Current 3		A				
Pc	Collector Power Dissipation @ T _c =25°C	40	W				
TJ	Junction Temperature	150	°C				
T _{stg}	Storage Temperature Range	-65~150	°C				

THERMAL CHARACTERISTICS

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





isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ;I _B = 0	50		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 7A; I _B = 3A		3.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 7A ; V _{CE} = 4V		3.0	V
I _{CEX}	Collector Cutoff Current	V _{CE} = 60V; V _{BE(off)} = 1.5V V _{CE} = 50V; V _{BE(off)} = 1.5V; T _C = 150°С		0.1 2.0	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 50V;I _B = 0		1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; l _c = 0		1.0	mA
h _{FE-1}	DC Current Gain	I _C = 2.5A ; V _{CE} = 4V	30	150	
h _{FE-2}	DC Current Gain	I _C = 7A ; V _{CE} = 4V	2.3		
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V; f _{test} = 1МНz		250	pF
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} = 4V; f _{test} = 1MHz	10		MHz

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