

isc Silicon NPN Power Transistor

2SC4690

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 140V(Min)
- · Collector-Emitter Saturation Voltage-
 - : V_{CE(sat)}= 2.0V(Max)@ I_C= 7A
- Complement to Type 2SA1805
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

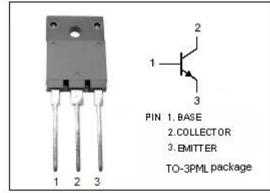


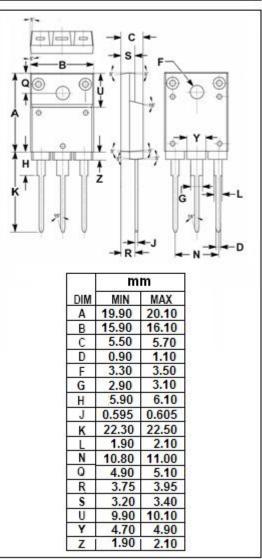
APPLICATIONS

- · Power amplifier applications
- Recommend for 70W high fidelity audio frequency amplifier output stage applications



SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	140	V	
V _{CEO}	Collector-Emitter Voltage	140	V	
V _{ЕВО}	Emitter-Base voltage	5	V	
Ic	Collector Current-Continuous	10	А	
I _{CM}	Collector Current-Peak	20	Α	
I _B	Base Current-Continuous 1		Α	
Pc	Collector Power Dissipation @ T _C =25℃	80	W	
TJ	Junction Temperature	perature 150 °C		
Tstg	Storage Temperature Range -55~150			







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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B = 0	140			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 7A; I _B = 0.7A			2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 5A; V _{CE} = 5V			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 140V; I _E = 0			5.0	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			5.0	μА
h _{FE-1}	DC Current Gain	Ic= 1A; V _{CE} = 5V	55		160	
h _{FE-2}	DC Current Gain	I _C = 5A; V _{CE} = 5V	35			
f⊤	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 5V		30		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V, f _{test} = 1MHz		220		pF

h_{FE-1} Classifications

R	0
55-110	80-160

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