

isc Silicon NPN Power Transistor

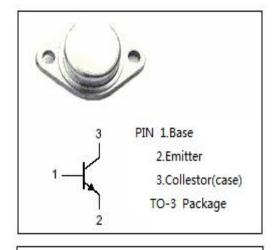
DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 140V(Min.)
- · Collector-Emitter Saturation Voltage-
 - : V_{CE(sat)}= 1.5V(Max.)@ I_C= 7A
- Complement to Type 2SB612
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

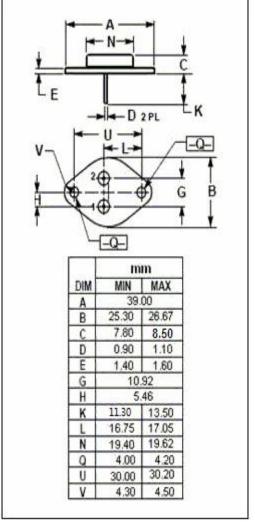


 Designed for 80~100W audio amplifier power output applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MAX	UNIT
V _{CBO}	Collector-Base Voltage	180	V
V _{CEO}	Collector-Emitter Voltage	140	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	12	Α
Ісм	Collector Current-Peak	15	Α
lΒ	Base Current-Continuous	2	А
Pc	Collector Power Dissipation @T _C =25℃	100	W
T _j	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range -55		$^{\circ}\!\mathbb{C}$





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2SD582

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; R _{BE} = ∞	140			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 = 7A; I _B = 0.7A			1.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 1A; V _{CE} = 5V			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 160V; I _E = 0			10	μА
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	35		200	
h _{FE-2}	DC Current Gain	I _C = 7A; V _{CE} = 5V	20			

♦ h_{FE-1} Classifications

Α	В	С		
35-70	60-120	100-200		

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