

isc Silicon NPN Power Transistor

DESCRIPTION

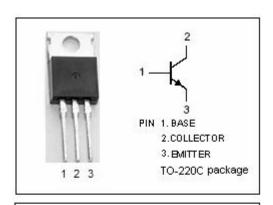
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 60V(Min.)
- · Low Collector Saturation Voltage
 - : V_{CE(sat)}= 0.6V(Max.)@I_C= 2A
- Complement to Type 2SA1262
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

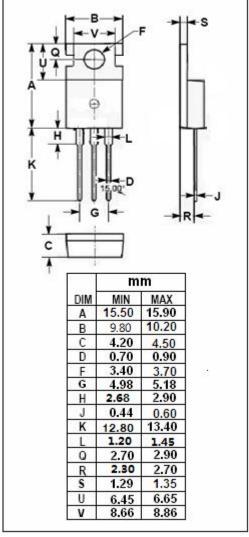


• Designed for audio and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	80	V
Vceo	Collector-Emitter Voltage	60	V
V_{EBO}	Emitter-Base Voltage	6	V
lc	Collector Current-Continuous	4	А
l _Β	Base Current-Peak	1	Α
Pc	Total Power Dissipation @ T _C =25°C	30	W
Тл	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	${}^{\mathbb{C}}$







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2SC3179

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

16-25 C uniess otherwise specified									
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA; I _B = 0	60			V			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.2A			0.6	V			
Ісво	Collector Cutoff Current	V _{CB} = 80V; I _E = 0			100	μА			
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			100	μА			
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 4V	40						
f⊤	Current-Gain—Bandwidth Product	I _E = -0.2A; V _{CE} = 12V		15		MHz			
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1MHz		60		pF			
Switching Times									
t _{on}	Turn-on Time			0.2		μS			
t _{stg}	Storage Time	I _C = 2A; R _L = 10 Ω, I _{B1} = -I _{B2} = 0.2A, V _{CC} = 20V		1.9		μS			
t _f	Fall Time			0.29		μS			

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