

isc Silicon NPN Power Transistor

2SC1114

 High vo Wide at 100% at Minimu 	D-3 Package	3 PIN 1.Base 3 2.Emitter 1 3.Collestor(case) TO-3 Package			
	ATIONS wer amplifier applications TE MAXIMUM RATINGS(Ta=2	25°C)			
SYMBOL	PARAMETER	VALUE	UNIT		
Vсво	Collector-Base Voltage	325	V	G B	
V _{CEO}	Collector-Emitter Voltage	300	V		
V _{EBO}	Emitter-Base Voltage	7	V	DIM MIN MAX A 39.00 B 25.30 26.67	
lc	Collector Current-Continuous	4	A	C 7.80 8.50 D 0.90 1.10	
Pc	Collector Power Dissipation	100	W	E 1.40 1.60 G 10.92 H 5.46 K 11.30 13.50	
TJ	Junction Temperature	150	°C	L 16.75 17.05 N 19.40 19.62	
T _{stg}	Storage Temperature Range	-65~150	°C	Q 4.00 4.20 U 30.00 30.20 V 4.30 4.50	



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ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			1.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			1.5	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	300			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	5			V
h _{FE}	DC Current Gain	I _C = 5.0A; V _{CE} = 4V	30			
fT	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 12V; f _{test} = 1MHz	10			MHz



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