

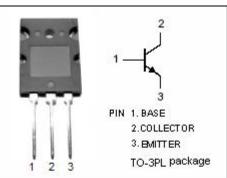
DESCRIPTION

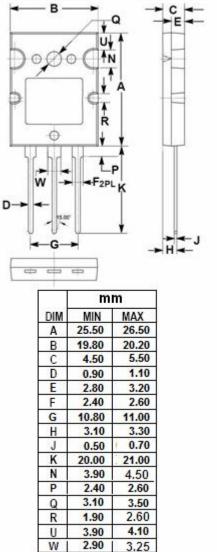
INCHANGE SEMICONDUCTOR

isc Silicon NPN Power Transistor

2SC3998

• High Br : V _{(BR)CB} • Minimu	vitching Speed eakdown Voltage- _{io} = 1500V(Min) m Lot-to-Lot variations for robust de ance and reliable operation	evice		
	TIONS Itage color display horizontal deflec TE MAXIMUM RATINGS(Ta=25℃)	tion output	t	•
SYMBOL	PARAMETER	VALUE	UNIT	
Vсво	Collector-Base Voltage	1500	V	D-
V _{CEO}	Collector-Emitter Voltage	800	V	F
V_{EBO}	Emitter-Base Voltage	6	V	
lc	Collector Current-Continuous	20	A	
I _{СМ}	Collector Current-Pulse	30	A	
Pc	Collector Power Dissipation @ Tc=25℃	200	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	





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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 10mA; I _B = 0	800			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 11A; I _B =2.75A			3.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 11A; I _B =2.75A			1.5	V
I _{СВО}	Collector Cutoff Current	V _{CB} = 1500V; I _E = 0			10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1.0	mA
h _{FE-1}	DC Current Gain	Ic= 1A; Vce= 5V	8		30	
h _{FE-2}	DC Current Gain	I _C =11A; V _{CE} = 5V	4		8	

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