

isc Silicon NPN Power Transistor

2SC4298

DESCRIPTION

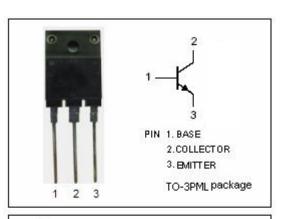
- · High Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 400V(Min)
- · High Switching Speed
- · High Reliability
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

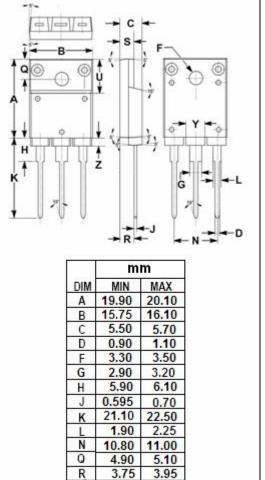
APPLICATIONS

· Designed for switching regulator and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{CBO}	Collector-Base Voltage	500	V				
Vceo	Collector-Emitter Voltage	400	00 V				
V _{EBO}	Emitter-Base voltage	10	V				
lc	Collector Current-Continuous	15	A				
Ісм	Collector Current-Peak	30	A				
I _B	Base Current-Continuous	5	A				
Pc	Collector Power Dissipation @ T_c =25 $^{\circ}C$	80	W				
TJ	Junction Temperature	150	°C				
T _{stg}	Storage Temperature Range	-55~150	°C				







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2.10

9.90 10.10



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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA ; I _B = 0	400			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 8A; I _B =1.6A			0.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 8A; I _B = 1.6A			1.3	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 500V ; I _E = 0			0.1	mA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 10V; I _C = 0			0.1	mA
h _{FE}	DC Current Gain	I _C = 8A ; V _{CE} = 4V	10		30	
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V; f _{test} =1.0MHz		85		pF
f⊤	Current-Gain—Bandwidth Product	I _E = -1.5A ; V _{CE} = 12V		10		MHz

NOTICE:

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