

isc Silicon NPN Power Transistor

2SC2965

DESCRIPTION

- Excellent Safe Operating Area
- · Low Collector-Emitter Saturation Voltage
- Minimum Lot-to-Lot variations for robust device Performance and reliable operation.

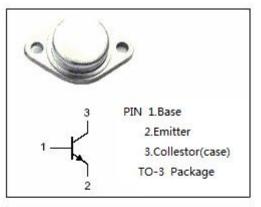
APPLICATIONS

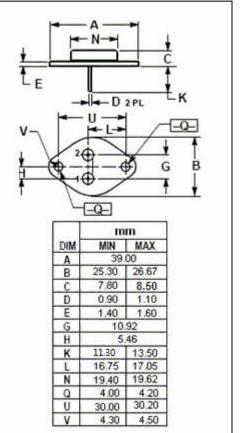
- Switching regulator
- Motor controls
- Deflections circuits

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{CBO}	Collector-Base Voltage	600	V			
V _{CEO}	Collector-Emitter Voltage	450	V			
V _{EBO}	Emitter-Base Voltage	7	V			
lc	Collector Current-Continuous	16	A			
I _B	Base Current	5	A			
Pc	Collector Power Dissipation@Tc=25°C	150	W			
T _{J,} T _{stg}	Operating and Storage Junction Temperature Range	-65~+175	°C			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.0	°C/W







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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _c =30mA ; I _B =0	450		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =10A; I _B = 2A		1.5	V
Iceo	Collector Cutoff Current	V _{CE} = 450V; I _B =0		0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C =0		0.1	mA
h _{FE}	DC Current Gain	I _C = 10A ; V _{CE} = 6V	7	20	

Switching Times

ton	Turn-On Time			0.5	μ S
t _{stg}	Storage Time	Ic= 10A; I _{B1} = 2A; I _{B2} = -2.0A;		1.0	μ S
tf	Fall Time			0.3	μ S

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