BLOOMFIELD, NEW JERSEY 07003

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Silicon NPN Power Transistors

MJ16018

DESCRIPTION

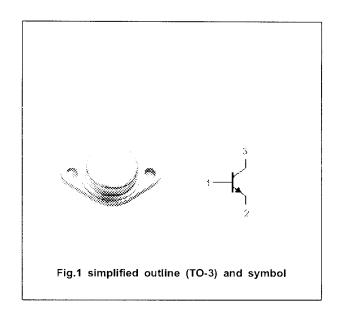
- · With TO-3 package
- · High voltage ,high speed

APPLICATIONS

- Switching Regulators
- Inverters
- Solenoids
- Relay Drivers
- Motor Controls
- Deflection Circuits

PINNING

PIN	DESCRIPTION	
1	Base	
2	Emitter	
3	Collector	



Absolute maximum ratings(Tc=25℃)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	1300	V
V _{CLO}	Collector-emitter voltage	Open base	750	V
V_{LBO}	Emitter-base voltage	Open collector	6	V
lc	Collector current (DC)		10	А
I _{CM}	Collector current-Peak		15	А
Ι _Β	Base current		8	Α
I _{вм}	Base current-Peak		12	Α
Pu	Total power dissipation	T _C =25℃ T _C =100℃	175 100	W
Т,	Junction temperature		150	$^{\circ}\mathbb{C}$
T _{stg}	Storage temperature		-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
R _{th j-C}	Thermal resistance junction to case		°C/W



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CHARACTERISTICS

Tj=25℃ unless otherwise specified

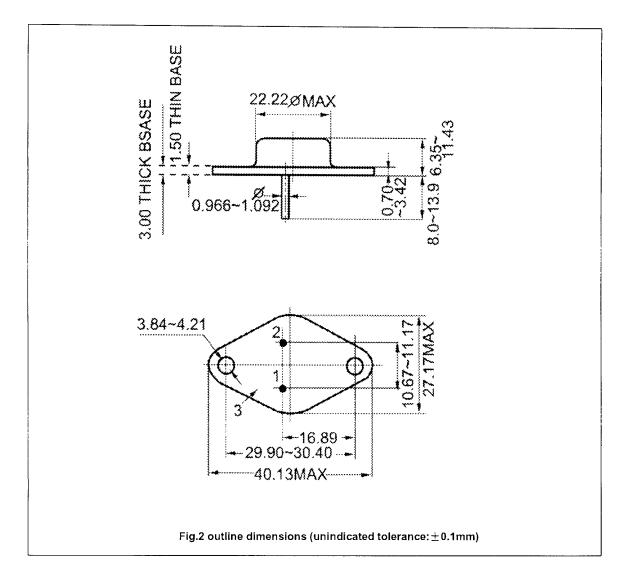
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-emitter sustaining voltage	I _C =50mA; I _B =0	750			V
V _{CEsat-1}	Collector-emitter saturation voltage	I _C =5A ;I _B =2A T _C =110°C			1.0 1.5	V
V _{CEsat-2}	Collector-emitter saturation voltage	I _C =10A ;I _B =5A			5.0	٧
V _{BLsat}	Base-emitter saturation voltage	I _C =5A ;I _B =2A T _C =110℃			1.5 1.5	V
I _{CEV}	Collector cut-off current	V _{CEV} =1300V,V _{BE(off)} =1.5Vdc T _C =100℃			0.25 1.50	mA
I _{CER}	Collector cut-off current	V _{CE} =1300V; R _{BE} =50 Ω T _C =100°C			2.5	mA
I _{EBO}	Emitter cut-off current	V _{EB} =6V; I _C =0			0.1	mA
h⊦⊦	DC current gain	I _C =5A; V _{CE} =5V	4			
Сов	Collector outoput capacitance	f=1kHz; V _{CB} =10V			450	pF
Switching til	mes resistive load			l	L	I
t _d	Delay time	I _C =5A; I _{B1} = I _{B2} =2.0A V _{CC} =250V ,R _{B2} =3 Ω PW=25 μ s Duty Cycle ≤ 2%		0.085	0.2	μS
t _r	Rise time			0.90	2.0	μS
t _s	Storage time			4.5	9.0	μS
t _f	Fall time			0.2	0.4	μS



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PACKAGE OUTLINE



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