multicomp PRO



Features

- Collector-emitter sustaining voltage 100mA
- VCEO (sus) = 400V (minimum)
- Optimum drive condition curves

Absolute Maximum Ratings

Parameter	Symbol	Values	Unit	
Collector-Emitter Voltage (RBE = 0)	VCBS	1,000		
Collector-Emitter Voltage	VCEO	400	V	
Emitter-Base Voltage	Vebo	8]	
Collector Current-Continuous-Peak	lc	10	Α	
	Ісм	15	~	
Base Current-Peak	Ів	3		
Total Power Dissipation at Tc = 25°C	Po	100	W	
Derate above 25°C		0.57	W/°C	
Operating and Storage Junction Temperature Range	Tj, Tstg	-65 to +200	°C	
Thermal Data				
Thermal Resistance Junction-Case (Max.)	Rejc	1.75	°C/W	

Electrical Characteristics (TCASE = 25°C unless otherwise specified)

Parameter		Symbol	Minimum	Maximum	Unit
Off Characteristics					
Collector-Emitter Sustaining Voltage (1) $(lc = 100mA, l_B = 0)$	BUY69A	Vceo (sus)	400	-	V
Collector-Base Voltage (lc = 1mA, l _E = 0)	BUY69A	Vсво	1,000	-	V
Collector Cut off Current (Vce = 1,000V, Vbe = 0)	BUY69A	ICES	-	1	
Emitter-Base Cut off Current (VEB = 8V, Ic = 0)		Іево	-		mA
On Characteristics (1)					
DC Current Gain (VcE = 10V, Ic = 2.5A)		hFE	15	-	-
Collector-Emitter Saturation Voltage (Ic = 8A, I_B = 2.5A)		Vce (sat)	-	3.3	V
Base-Emitter Saturation (Ic = 8A, IB = 2.5A)		VBE (sat)	-	2.2	V

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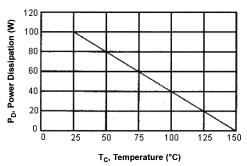


Parameter	Symbol	Minimum	Maximum	Unit
Dynamic Characteristics				
Current Gain-Bandwidth Product (2) (Ic = 500mA, VcE = 10V, f = 1MHz)	fT	10	-	MHz

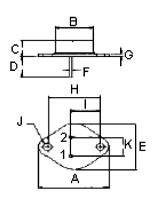
(1) Pulse Test : Pulse Width = 300 µs, Duty Cycle ≤2%

(2) $f_T = |hfe| \cdot f_{test}$

Power Derating



TO-3



Pin 1. Base 2. Emitter Collector (Case)

Dimensions	Minimum	Maximum
A	37.75	39.96
В	19.28	22.23
С	7.96	9.28
D	11.18	12.19
E	25.2	26.67
G	0.92	1.09
N	1.38	1.62
Р	29.9	30.4
R	16.64	17.3
U	3.88	4.36
V	10.67	11.18

Dimensions : Millimetres

Part Number Table

Description	Part Number
Transistor, NPN, TO-3	BUY69A

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