

IMH20T1G

Dual Bias Resistor Transistor

NPN Surface Mount

- Low V_{CC} (sat) 80 mV max at $I_C/I_B = 50$ mA/2.5 mA
- High Current: $I_C = 600$ mA max
- Lead Free Plating

MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$)

Rating	Symbol	Value	Unit
Collector-Base Voltage	$V_{(BR)CBO}$	30	Vdc
Collector-Emitter Voltage	$V_{(BR)CEO}$	15	Vdc
Emitter-Base Voltage	$V_{(BR)EBO}$	5.0	Vdc
Collector Current - Continuous	I_C	600	mAdc

THERMAL CHARACTERISTICS

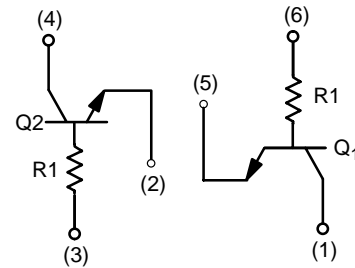
Characteristic	Symbol	Max	Unit
Power Dissipation*	P_D	300	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	- 55 to +150	$^\circ\text{C}$

*Total for both Elements



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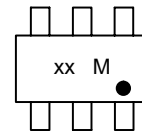


SC-74



SC-74

MARKING DIAGRAM



xx = Specific Device Code
M = Date Code

ORDERING INFORMATION

Device†	Package	Shipping
IMH20T1G	SC-74	3000/Tape & Reel

†The "T1" suffix refers to a 7-inch reel.

IMH20T1G

Q1 + Q2: NPN


ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
Collector-Emitter Breakdown Voltage ($I_C = 1.0 \text{ mAdc}$, $I_B = 0$)	$V_{(BR)CEO}$	15	-	Vdc
Collector-Base Breakdown Voltage ($I_C = 50 \text{ }\mu\text{Adc}$, $I_E = 0$)	$V_{(BR)CBO}$	30	-	Vdc
Emitter-Base Breakdown Voltage ($I_E = 50 \text{ }\mu\text{Adc}$, $I_C = 0$)	$V_{(BR)EBO}$	5.0	-	Vdc
Collector-Base Cutoff Current ($V_{CB} = 20 \text{ Vdc}$, $I_E = 0$)	I_{CBO}	-	0.5	μAdc
Emitter-Base Cutoff Current ($V_{EB} = 4.0 \text{ V}$, $I_C = 0$)	I_{EBO}	-	0.5	μAdc
DC Current Gain (Note 1) ($V_{CE} = 5.0 \text{ Vdc}$, $I_C = 50 \text{ mAdc}$)	h_{FE}	100	600	-
Collector-Emitter Saturation Voltage ($I_C = 50 \text{ mAdc}$, $I_B = 2.5 \text{ mAdc}$)	$V_{CE(sat)}$	-	80	mV
Input Resistance	R_1	1.54	2.86	k Ω

1. Pulse Test: Pulse Width $\leq 300 \text{ }\mu\text{s}$, D.C. $\leq 2\%$.

Notes

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