IMH20T1G

Dual Bias Resistor Transistor

NPN Surface Mount

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

MAXIMUM RATINGS (T_A = 25°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	°C
Storage Temperature	T_{stg}	- 55 to +150	°C

*Total for both Elements

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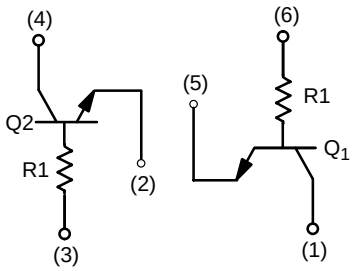
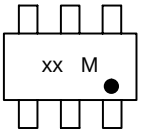


SC-74

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.

July, 2003 - Rev. 0

Publication Order Number:
IMH20T1G/D

Q1 + Q2: NPN

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

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

1. Pulse Test: Pulse Width ≤ 300 μs, D.C. ≤ 2%.

Notes

Thermal Clad is a registered trademark of the Bergquist Company

PUBLICATION ORDERING INFORMATION

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