

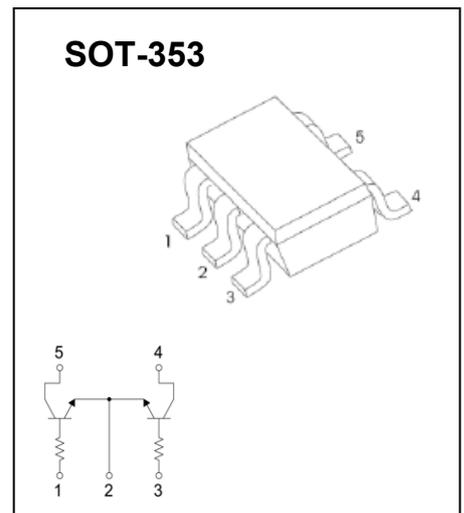
## Digital Transistors (Built-in Resistors)

### UMG3N Dual Digital Transistors (NPN+NPN)

#### FEATURES

- Two DTC143T chips in a package
- Mounting possible with SOT-353 automatic mounting machines.
- Transistor elements are independent, eliminating interference.
- Mounting cost and area be cut in half.

Marking: G3



#### Absolute maximum ratings (Ta=25°C)

Symbol	Parameter	Value	Units
$V_{CBO}$	Collector-Base Voltage	50	V
$V_{CEO}$	Collector-Emitter Voltage	50	V
$V_{EBO}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current -Continuous	100	mA
$P_C$	Collector Power Dissipation	150	mW
$T_J, T_{stg}$	Operation Junction and Storage Temperature Range	-55 ~ +150	°C

#### ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=50\mu A, I_E=0$	50			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=50\mu A, I_C=0$	5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=50V, I_E=0$			0.5	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=4V, I_C=0$			0.5	$\mu A$
DC current gain	$h_{FE}$	$V_{CE}=5V, I_C=1mA$	100		600	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=5mA, I_B=0.25mA$			0.3	V
Transition frequency	$f_T$	$V_{CE}=10V, I_E=-5mA, f=100MHz$		250		MHz
Input resistor	$R_1$		3.29	4.7	6.11	K $\Omega$

**Typical Characteristics**
