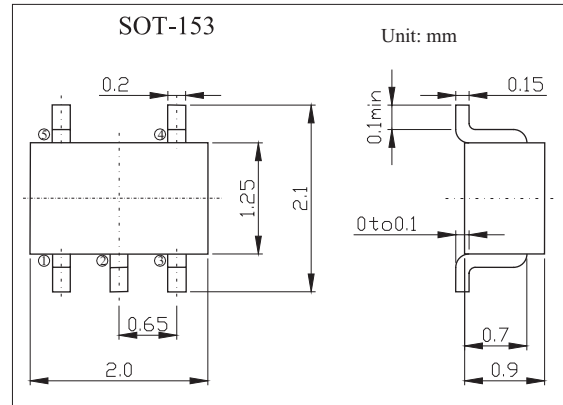
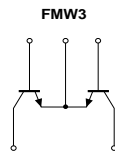


## General purpose (Dual NPN Transistors)

## FMW3

## ■ Features

- High breakdown voltage
- Power dissipation:  $P_c=300\text{mW}$
- Collector Current:  $I_c=50\text{mA}$

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CB0}$	120	V
Collector-Emitter Voltage	$V_{CE0}$	120	V
Emitter-Base Voltage	$V_{EB0}$	5.0	V
Collector Current -Continuous	$I_c$	50	mA
Collector Power Dissipation(TOTAL)	$P_c$	300	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55 to 150	$^\circ\text{C}$

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-to-base breakdown voltage	$V_{(BR)CB0}$	$I_c = 50\mu\text{A}, I_E = 0$	120			V
Collector-to-emitter breakdown voltage	$V_{(BR)CE0}$	$I_c = 1\text{mA}, I_B = 0$	120			V
Emitter-to-base breakdown voltage	$V_{(BR)EB0}$	$I_E = 50\mu\text{A}, I_c = 0$	5.0			V
Collector cutoff current	$I_{cB0}$	$V_{CB} = 100\text{V}, I_E = 0$			0.5	$\mu\text{A}$
Collector cutoff current	$I_{EB0}$	$V_{CE} = 4.0\text{V}, I_c = 0$			0.5	$\mu\text{A}$
DC current gain	$h_{FE}$	$V_{CE} = 60\text{V}, I_c = 2.0\text{mA}$	180		820	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c = 10\text{mA}, I_B = 1.0\text{mA}$			0.5	V
Transition frequency	$f_T$	$V_{CE} = 12\text{V}, I_c = 2\text{mA}, f = 100\text{MHz}$		140		MHz

## ■ Marking

Marking	W3