



# For Solenoid/Motor/Relay - Drive

## Complex transistor DTDG series

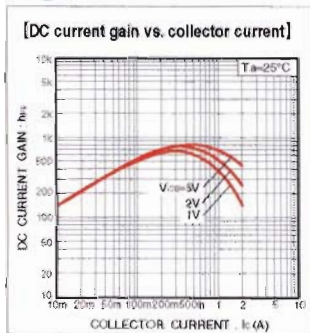
(resistor & zener diode built-in)



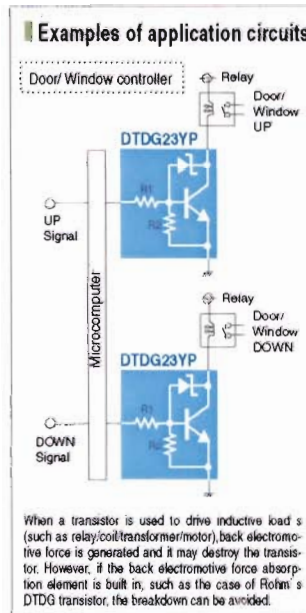
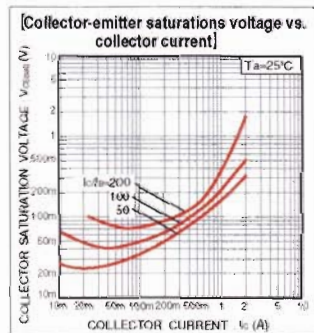
### Resistor & Zener Diode Built-in

Zener diode is built-in to protect transistor from the breakdown by back electromotive force surge voltage, so that external protection diode is not necessary. Input resistor(s) is/are built-in to enable the direct drive by the control IC (DTDG23YP).

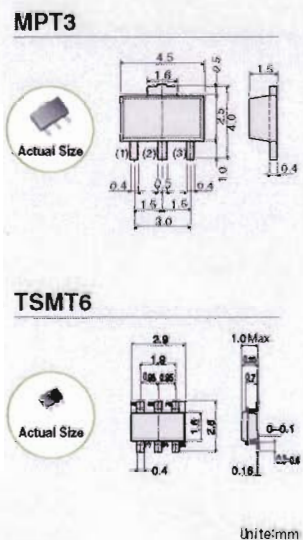
### High hFE (300min.)



### Low VCE sat (0.4Vmax.)



### Dimensions



### Line up

Part No.	VCE (V)	Ic (A)	hFE	R1 (kΩ)	R2 (kΩ)	Equivalent Circuit	Package
DTDG14GP	60 ± 10	1	300 or more	—	10		MPT3
DTDG23YP	60 ± 10	1	300 or more	2.2	10		MPT3
QSH29	60 ± 10	0.5	500 or more	—	10		TSM6

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