# **Gate Driver Module DM Series**

## Gate Driver Module integrates the functions required for the SiC MOSFET and IGBT gate drivers.

This product is a next-generation drive module that emphasizes common mode noise prev entive measures in particular.

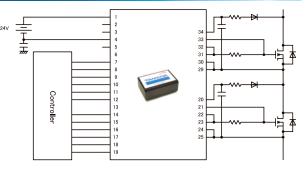


#### Features

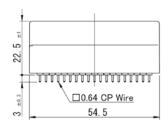
- Low common mode noise (parasitic capacitance: 15pF TYP)
- Fast response (100ns TYP)
- All-in-one (built-in DC-DC converter/Gate driver)
- It corresponds to a module of 2in1 type. 2 drive circuits are separate respectively.
- Dielectric withstand voltage: AC2500Vrms
- Electrolytic capacitor

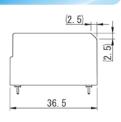
Model		SiC Driver	IGBT Driver	
		2DM180506CM	2DM150806CM	2DM150606CM
Input	Supply voltage range	DC13V to DC28V/DC24V		
	Input signal voltage	5V		
Output	Number of drive circuits	2		
	Maximum output power	3W (per circuit)		
	Output terminal voltage (H)	+17V to +19V	+14V to +16V	+14V to +16V
	Output terminal voltage (L)	-4V to -6V	-7V to -9V	-5V to -7V
	Switching frequency	200kHz max		
	Gate drive capability			2700nC/50kHz 700nC/200kHz
		(When the output power per circuit is equivalent to 3W)		
	Maximum output current	18A peak (guaranteed by design)		
Delay time		100nsec. (typ.)		
Mirror clamp detection		Operation with Output terminal voltage +2Vtyp.; -3A peak (guaranteed by design)		
Desaturation protection function		Fault signal output function; Recovery by turning on the reset input again.		
Signal transmission method (isolation circuit)		Magnetic		
Dielectric withstand		AC2500V/ 1min.		
voltage		Note: Between input and output; Between drive circuits		
Operating temperature range		-30°C to +85°C; Maximum output power at 85°C: Approximately 1W (per circuit) Note: Temperature derating may occur depending on		
		the drive conditions.		
Operating humidity range		20% to 95% RH (No condensing)		

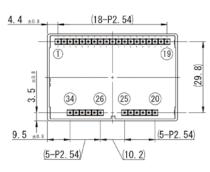
#### **Circuit diagram**



#### Outline Drawing Unit:mm









### TAMURA CORPORATION

Contact Tamura Corporation for further information. E-mail: soudan@tamura-ss.co.jp 5-5-30, Chiyoda, Sakado-shi, Saitama 350-0214, Japan Sakado Factory : Osaka Sales Office : No.2 Esaka-Sansho Bldg., 3-27-27, Tarumicho, Suita-shi, Osaka 564-0062, Japan TEL. +81-6-6380-2300 FAX. +81-6-6385-8371 Nagoya Sales Office : 3-1803, Kamiyashiro, Meito-ku, Nagoya-shi, Aichi 465-0025, Japan

TEL. +81-49-284-2323 FAX. +81-49-284-9183 TEL. +81-52-701-1210 FAX. +81-52-701-1295 Apr. 2016

# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Tamura:

2DM180506CM 2DM150806CM 2DM150606CM