DACO SEMICONDUCTOR CO., LTD. TCS300GM(R)

STANDARD RECOVERY DIODE STUD TYPES

#### Features

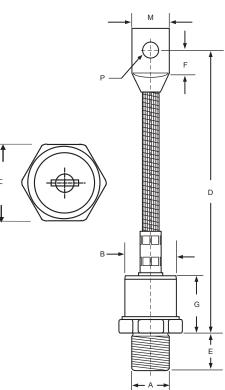
High Surge Capability Types up to 1600V VRRM

#### **Maximum Ratings**

Operating Temperature : -55°C to +175°C Storage Temperature : -55°C to +175°C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
TCS300GM(R)	400V	280V	400V

## 300 Amp Rectfifier 400 Volts DO-9 (DO-205AB)



#### Electrical Characteristics @ 25 $^\circ\!\!\!\mathrm{C}$ Unless Otherwise Specified

Average Forward Current	IF(AV)	300 A	Tc=130°C
Maximum Peak Forward Surge Current	IFSM	6850A	8.3ms , half sine
Maximum Instantaneous Forward Voltage *	V <sub>F</sub>	1.1V	I <sub>FM</sub> = 300A. T <sub>J</sub> = 25 °C′
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	25 µA 12mA	TJ=25 ℃ TJ=175 ℃
Maximum Thermal Resistance Junction To Case	R <sub>0</sub> j c	0.28 °C/W	
Mounting torque (+0 -10%)	Inch pounds (in-lb)	270	
Weight		215g	

\*Pulse Test: Pulse Width 300  $\mu$  sec. Duty Cycle < 2%

Marking Notes :

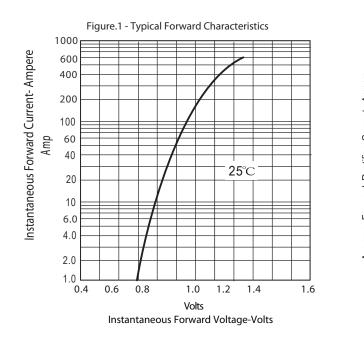
1.Suffix with "R" = Stud Reverse Polarity : Anode to stud 2.None = Stud normal polarity : Cathode to stud

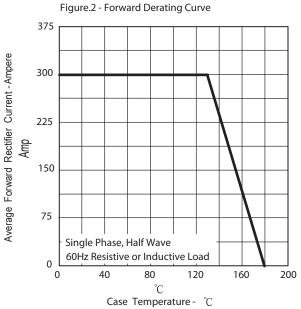
DIM	Inches		Millimeters			
	Min	Max	Min	Max		
А	M 20 * P 1.5					
В		1.100		27.94		
С	1.240	1.250	31.50	31.90		
D	5.310	5.980	135	152		
E	0.780	0.828	19.60	21.03		
F	0.470	0.530	11.94	13.46		
G		1.122		28.50		
М		0.787		20.00		
Р	0.330	0.350	8.38	8.89		

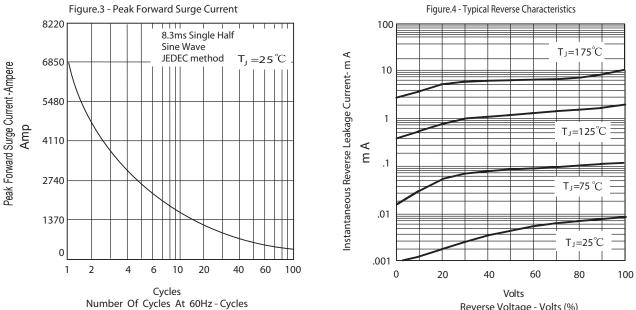
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# TCS300GM(R)









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