# DACO SEMICONDUCTOR CO., LTD. MURTTA300100(A)(R)

# SUPER FAST DIODE MODULE TYPE 300A / 1000V

#### **Features**

High Surge Capability Type 1000V VRRM Isolation Type Package Electrically Isolation base plate

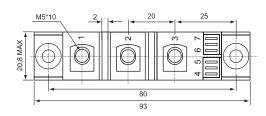
### **Maximum Ratings**

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
MURTTA300100(A)(R)	1000V	700V	1000V

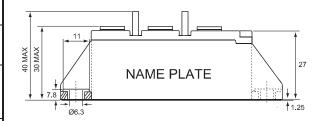


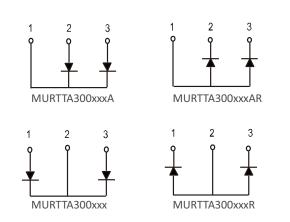
Dimensions in mm (1 mm = 0.0394")



### Electrical Characteristics @ 25 °C Unless Otherwise Specified.

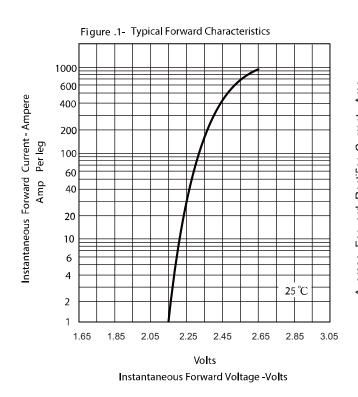
Average Forward Current (Per pkg)	<b>I</b> F(AV)	300 A	Tc=125℃
Peak Forward Surge Current (Per leg)	İFSM	2750 A	8.3ms,half sine
Maximum Instantaneous Forward Voltage* (Per leg)	VF	2.35 V	IFM=150A;TJ=25℃
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	lR	25 μ A 3 mA	TJ=25℃ TJ=125℃
Maximum Recovery Time Voltage (Per leg)	Trr	135 ns	IF=0.5A, IR=1.0A IRR=0.25A
Maximum Thermal Resistance Junction To Case (Per leg)	Rθjc	0.40°C/W	
Isolation Voltage	Viso	2500 V	A.C. 1 minute
Mounting torque		5 ± 0.5Nm 3 ± 0.5Nm	

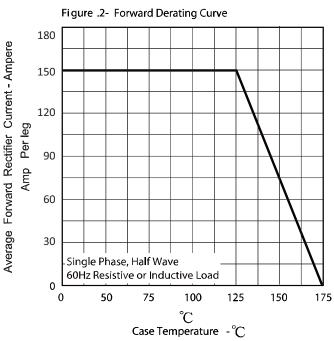


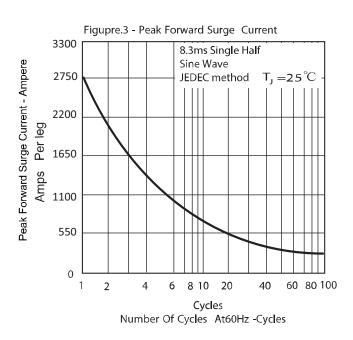


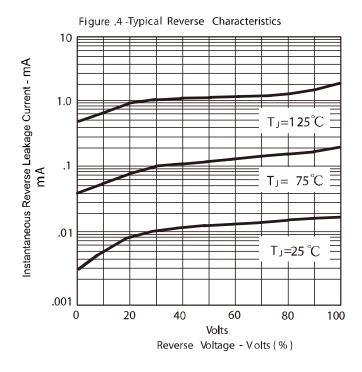
www.dacosemi.com.tw

Pulse Test: Pulse Width 300  $\mu$  sec, Duty<2%









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