### SUPER FAST DIODE MODULE TYPE 300A

### **Features**

High Surge Capability Type 1000V V<sub>RRM</sub> Isolation Type Package Electrically Isolation base plate

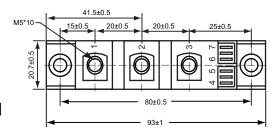
### **Maximum Ratings**

Junction 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
MURTT300100(A)(R)	1000V	700V	1000V

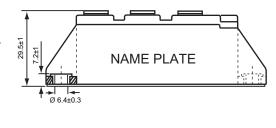
# **TO-240AA**

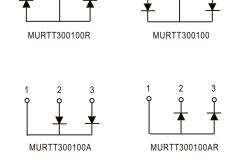
Dimensions in mm (1 mm = 0.0394")



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

Average Forward Current (Per pkg)	lF(AV)	300A	Tc = 125°C
Peak Forward Surge Current (Per diode)	İFSM	2750A	8.3ms , half sine
Maximum (Per diode) Instantaneous Forward Voltage *	VF	2.35V	IFM=150A;ТJ = 25°С
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	lr	25µA 3mA	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C
Maximum Reverse Recovery Tlme (Per diode)	Trr	135ns	IF = 0.5A,IR = 1.0A IRR = 0.25A
Isolation Voltage	Viso	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per diode)	Røjc	0.40°C/W	
Mounting torque		4 ± 0.5Nm 3 ± 0.5Nm	

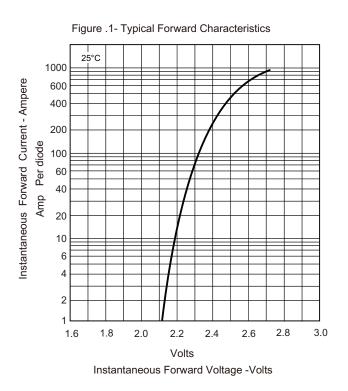


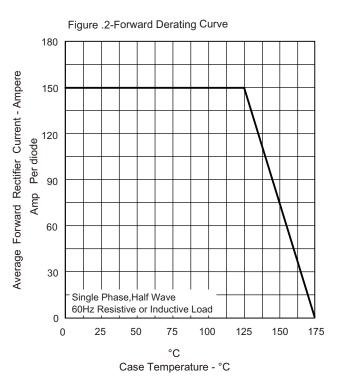


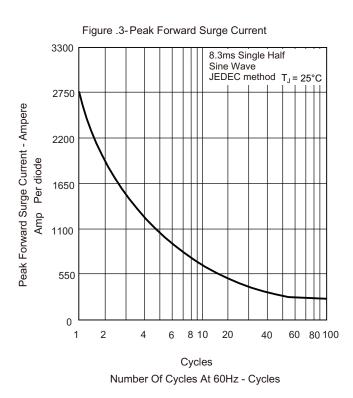
<sup>\*</sup>Pulse Test: Pulse Width 300  $\mu$ sec, Duty Cycle < 2%

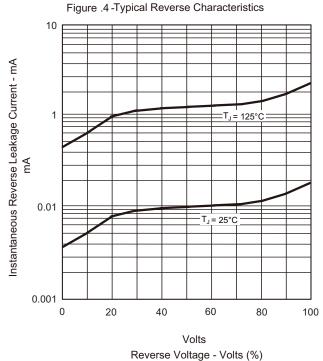


# MURTT300100(A)(R)









## MURTT300100(A)(R)

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