



**ULTRA FAST RECOVERY RECTIFIER**  
**VOLTAGE- 600 Volts CURRENT - 2.0 Amperes**



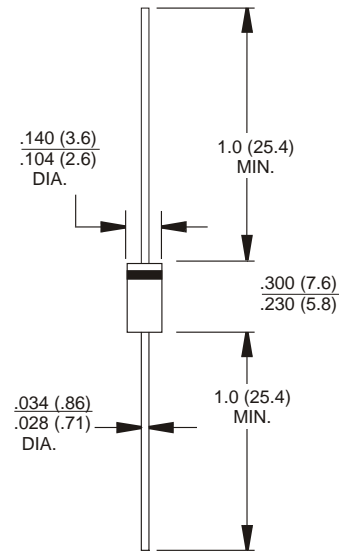
**Features**

- Ultrafast 50 Nanosecond Recovery Times
- 150°C Operating Junction Temperature
- Low Forward Voltage
- Low Leakage Current
- High Temperature Glass Passivated Junction
- Passivated Junction
- These are Pb-Free Devices\*
- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request

**Mechanical Characteristics**

- Case: Epoxy, Molded
- Weight: 0.4 gram (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal
- Leads are Readily Solderable
- Lead and Mounting Surface Temperature for Soldering Purposes:  
220°C Max. for 10 Seconds
- Polarity: Cathode Indicated by Polarity Band
- Marking: MUR260

DO-15 Unit:inch(mm)



**MAXIMUM RATINGS**

Rating	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	VRRM	600	Volts
Working Peak Reverse Voltage	VRWM	—	
DC Blocking Voltage	VR	—	
Average Rectified Forward Current (Note 1)	IF(AV)	2.0	Amps
Non-Repetitive Peak Surge Current (Surge applied at rated load conditions, halfwave, single phase, 60 Hz)	IFSM	60	Amps
Operating Junction Temperature and Storage Temperature Range	TJ, Tstg	-55 to +150	°C

**THERMAL CHARACTERISTICS**

Characteristic	Symbol	Value	Unit
Maximum Thermal Resistance, Junction-to-Ambient	RθJA	65	°C/W

1. Pulse Test: Pulse Width = 300 μs, Duty Cycle ≤ 2.0%.
2. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

# DEVICE CHARACTERISTICS

## MUR260

### ELECTRICAL CHARACTERISTICS

<b>Maximum Instantaneous Forward Voltage (Note 2.)</b> (IF = 2.0 A, TJ = 25°C) (IF = 2.0 A, TJ = 150°C)	VF	1.30 1.15	Volts
<b>Maximum Instantaneous Reverse Current (Note 2.)</b> (Rated dc Voltage, TJ = 25°C) (Rated dc Voltage, TJ = 150°C)	IR	5 150	uA
<b>Maximum Reverse Recovery Time</b> (IF = 0.5 A, IR = 1.0 A, Irr = 0.25A)	trr	50	ns
<b>Maximum Forward Recovery Time</b> (IF = 1.0 A, di/dt = 100 A/us)	tfr	50	ns

2. Pulse Test: Pulse Width = 300  $\mu$ s, Duty Cycle  $\leq$  2.0%.

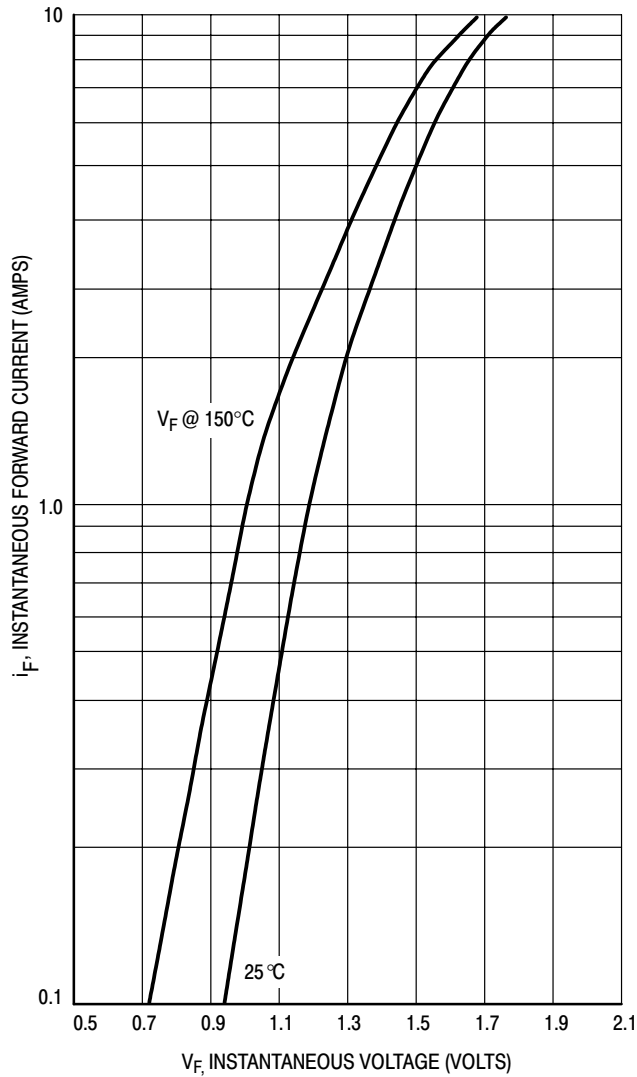


Figure 1. Maximum Forward Voltage

# DEVICE CHARACTERISTICS

## MUR260

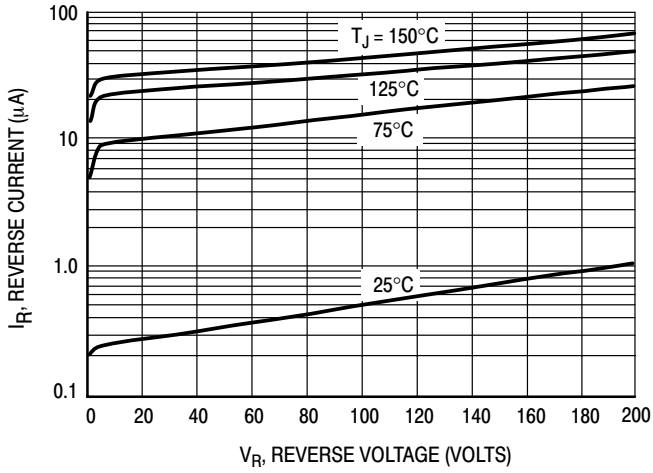


Figure 2. Maximum Reverse Current

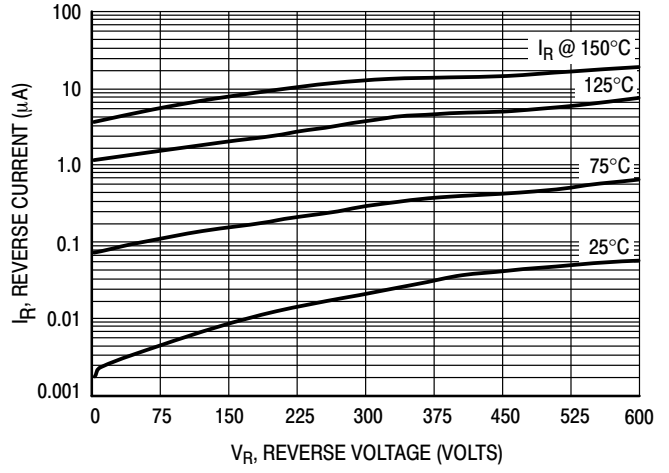


Figure 3. Typical Reverse Current

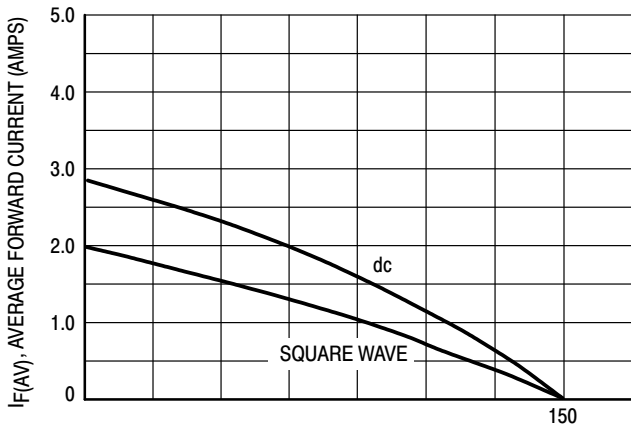


Figure 4. Current Derating

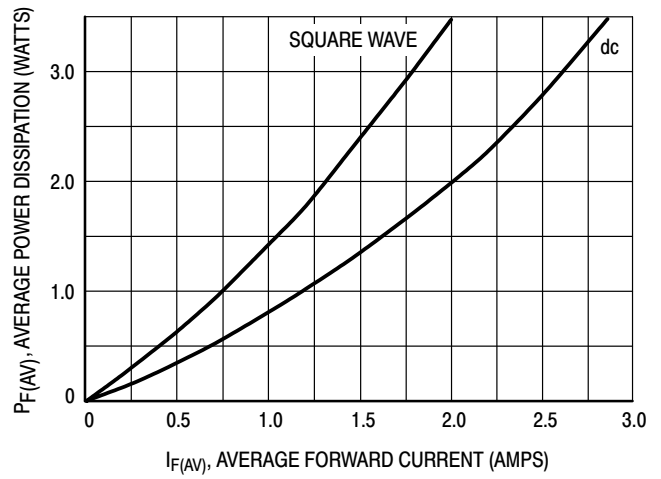


Figure 5. Power Dissipation

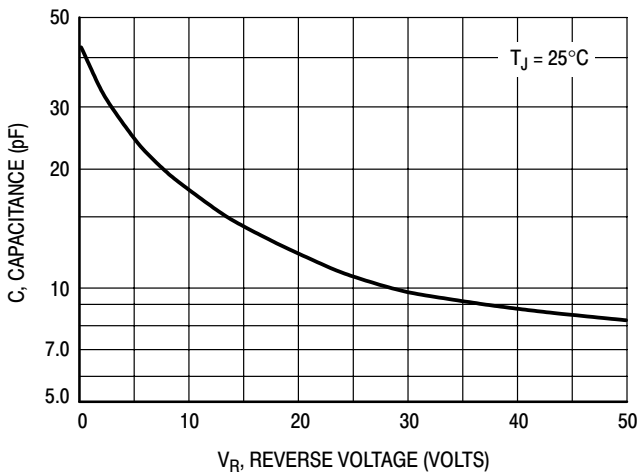


Figure 6. Typical Capacitance