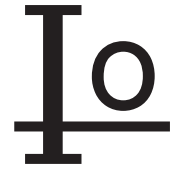


# MUR220 THRU MUR260

## ULTRAFAST RECTIFIER

VOLTAGE RANGE 200 to 600 Volts CURRENT 2.0 Amperes



### FEATURES

- \* High reliability
- \* Low leakage
- \* Low forward voltage
- \* High current capability
- \* Ultrafast switching speed
- \* High surge capability
- \* Good for switching mode circuit

### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: Device has UL flammability classification 94V-0
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.35 gram
- \* Lead Free Finish/RoHS Compliant

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

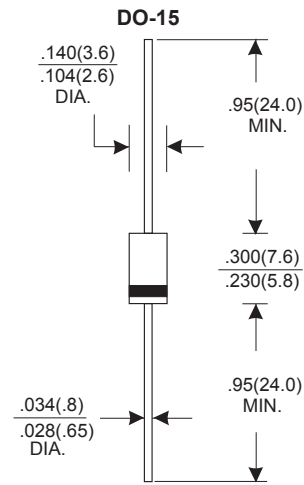
Ratings at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

### VOLTAGE RANGE

200 to 600 Volts

### CURRENT

2.0 Amperes



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS (@ T<sub>A</sub>=25 °C unless otherwise noted)

RATINGS	SYMBOL	MUR220	MUR240	MUR260	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	200	400	600	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	140	280	420	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	200	400	600	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> =55°C	I <sub>O</sub>	2.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	35			Amps
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to + 150			°C

### ELECTRICAL CHARACTERISTICS(@T<sub>A</sub>=25 °C unless otherwise noted)

CHARACTERISTICS	SYMBOL	MUR220	MUR240	MUR260	UNITS
Maximum Instantaneous Forward Voltage at 2.0A DC	V <sub>F</sub>	0.95	1.30	1.30	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T <sub>J</sub> = 25°C	2.0	5.0		uAmps
	@T <sub>J</sub> = 150°C	50	150		
Maximum Reverse Recovery Time (Note 1)	t <sub>rr</sub>	25	50		nSec

NOTES : 1. Test Conditions: I<sub>F</sub> = 0.5A, I<sub>R</sub> = -1.0A, I<sub>RR</sub> = -0.25A  
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)"

# RATING AND CHARACTERISTICS CURVES ( MUR220 THRU MUR260 )

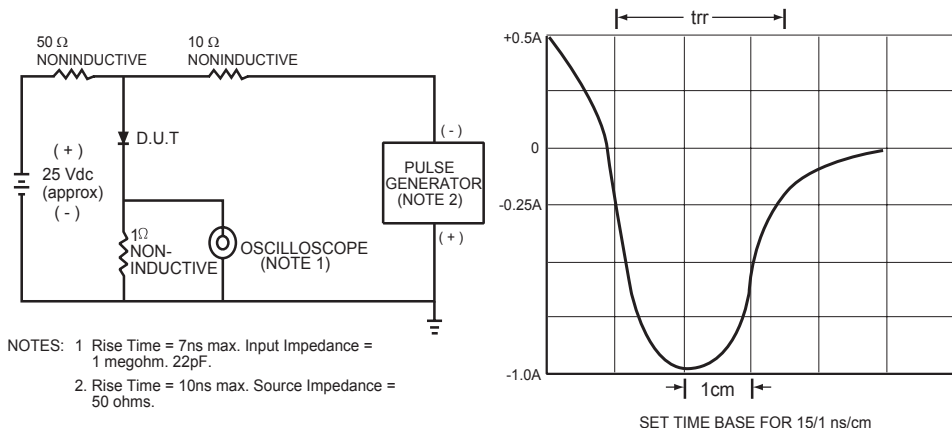


FIG.1 TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

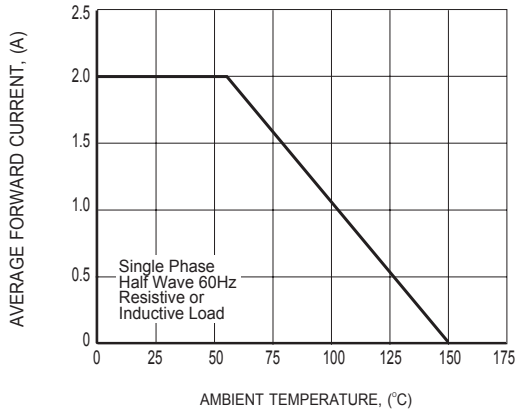


FIG.2 TYPICAL FORWARD CURRENT DERATING CURVE

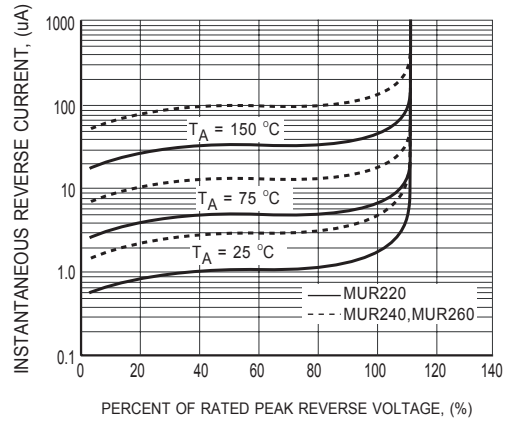


FIG.3 TYPICAL REVERSE CHARACTERISTICS

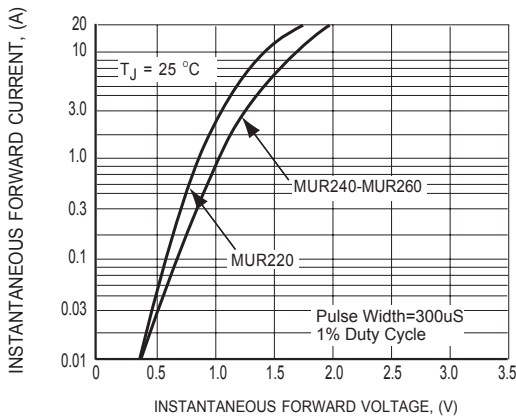


FIG.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

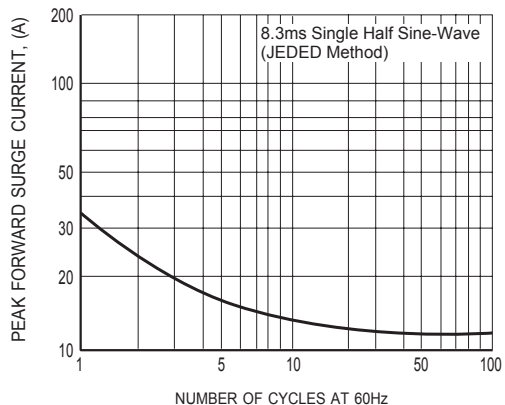


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT